Date:///	5	me & Initi	al 4	Day: Thursday During/End of Turn Operation	5	Time & Initia	4
tart of Turn for Operation	BIL	M	FL	Clean Cl2 Probes		h	
Theck Plant Theck Aeration Tks.	12/1		FI	Drain Condensate			FL
	1311	M	FE	Clean Tubes @Final Clar. Tks.	_		1/-
Check Sludge Draw off Flow Check Generator	1311	M	FI	Clean Operator Lab & Meter		M	
Check Strainer	1311	m	FI	Plant End Check	BU	M	F/
Fin. Clar. Sludge Judge Readir	g (davturn)			Check Finial Sampler	BU	IM	FL
Tk1 4 Tk2 6 Tk3 6	Tk4 4				к		Cl2 Scale
2 Resdual 5 3	4	De-Cl Res.	5	3 4 Boiler Temp Ps		Temp Psi	1st 20%
tart Shift 27 - 16	114	Start Shift		106 10 Mid-Shift 62 C	000	66° 3	2nd 200
/lid-Shift , 29 . 18	1/6	Mid-Shift	103	.05 11 End-Shift 620 C) 0 0	660 3	Tol. Prim. Skimmi
Aid-Shift 5 3	4			as Light Brogger CONTROL	Delimen	Holding Tk.	2nd /867/76
inal pH 7,34 7,24	984	WAS	Waste Rate	SS SVI PROCESS CONTROL 30 min MLSS MLVSS	Polymer	Holding Ik.	1st /8/0753
inal D.O. ////8 10.58	9.70	SS mg/l	gpm	30 min MLSS MLVSS	750	3/	1000
inal Temp 22° 23	220	3/90	200	90 944 1210 760	100	100	23
HIFT 5 REMARKS (Events that are not p	art of daily rou	tine or checke	ed off)		1.	/,	7 1 1 1 7
an third	tour	mins	ed br	ittons due to a story	n (leg	hoyso	my lase
Mestlan hel	was	- 16	pener	ter woon frat lo	Jellinge	in all	n the Alle
sweeze pung	//as	rually	1- 21-	udge almon anove	The sie	ST III	cmi9 1
HIFT 3 REMARKS (Events that are not p	art of daily rou	itine or checke	ed off)		Oper.	n Charge Signátu	the same of the sa
HAD TO Bleed D			MAD	E ADJUSTMENT ON DAF B	eached.	flight -	OPENED
By PASS GATE IN SC	and the second second	Buildine		N RAIN TO DAK HARD RAIN			1
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						100	
HET A DENANDYS /F			1 (0		10000000000000000000000000000000000000		<u>-M 9 / / /</u>
HIFT 4 REMARKS (Events that are not p	art of daily rou	itine or checke	ed off)		Oper.	n Charge Signatu	ire Dat
Hit mire butten J.	Wilden	rl 1111	ed but	e how to pump down but	bler gav	al	
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Had to bleek bubbl	er aque	is to	WILLIAM O	own DAF Sludge		1,1	11
THE TO THE CE OF DOLL	-1-1-9	1 /	~ ~ ~ ~	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21	out Am	Padi 9 1 1 1.
	Committee of the Commit	The state of the s			Oper.	In Charge Signati	re Dat
hief Oper./Superintent / Directo	or Remarks:	6 6 6					

CILY OF TRUITCH TOT C

Operational Daily Data Sheet

Date: hursday Day: Time & Initial Time & Initial 5 5 3 4 Operation 3 4 Operation FZ FL BU Bell M Clean Organic Return Check Plant M FL Ran Skimmers / Hosed Down Check Raw Sampler M Check Primary Tanks M FL Recirculate Scum Sump FL Recirculate Sludge Holding Tk. Check Settle Sampler M Dumped(Grit) Rag Pan Check Sludge Pumps M FL **Dump Pan in Screen Building** # of Septic Haulers M Plant End Check **NEEDS:** REPORT OFF: Shift Readings: CHAMPION G.M./LORDSTOWN TREATED (in CP2) Sludge to Biosolids Recirculate pump pumping 2nd 9308 rate 1st 1st x1000 x1000 TOT. M.G.D. M.G.D. TEMPERATURE IN F PRECIPITATION Snow ice Pel. Hail Rain, Draw a straight line through hours precipitation was observed and a wavy line through hours Max. Min. At Obsn. Melt Snow current accum. precipitation probably occurred but was not observed. 73 6% A.M. .35 1 2 3 10 11 12 WEATHER (Mark "X" for all type that occur during observed) Ice Pell. Glaze Thunder Hail D. Wind 1 2 4 5 6 7 8 9 10 11 12 Fog P.M. 3 **GASOLINE READINGS** # Initials Raw pH Temp Removable in Cu, Yards Main Pump Rotation Action #5/4/ Screenings Noon Grit Shift 2nd Inches #3 M Mid 1st 20 50 End TOT. Primary Sludge Judge Reading: These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. 800 1200 1600 2000 #2 2400 400 800 1200 1600 2000 Tk #1 2400 400 20 125 12 Inches 12 FL Initials #4 Tk #3 12 Inches Initials Tk #5 Comments: Inches Initials Job Code: (P=Primary S=Secondary B= Primary/Secondary) **EMPLOYEE'S NAME & HOURS** JOB | HOURS | OT | SICK | VAC | W/UP Name OUT 5 5 3 2 8 CN 3 4 4

				Tel Coc	contact	VICEOUT					
Date: 9 1 2 1 11	Ţ	ime & Initia	al		Day:	Frida	V		Time & Initial		The second secon
tart of Turn for Operation	5	3	4	During/E	nd of T	urn Operatio	2	5	3	4	
heck Plant	BU	F(.	FL	Clean Cl2	2 Probes				IFL 1		
heck Aeration Tks.	Bu	FL	FL	Drain Co	ndensat	e			FL		
heck Sludge Draw off Flow	Bu	FL	FL	Clean Tu	bes @Fi	nal Clar. Tks.					
heck Generator	Bu	FL	FL	Clean Op	erator l	ab & Meter					
heck Strainer	BUL	FL	FL	Plant End	d Check		N	BUL	FL	FL	
in. Clar. Sludge Judge Readi				Check Fir	nial Sam	pler		BU	FL	FL	
10" Tk2 8" Tk3 6"	Tk4 10 "	×	50	0		. B	(4/2) (K)		× 11	CI	2 Scale
2 Resdual 5 3	4	De-Cl Res.	5	3	4	Boiler		Temp Psi	Temp Psi	1st	2000
art Shift 33 130	,23	Start Shift		.09	,02	Mid-Shift	PL O	66° 3	680 3	2nd	1936
id-Shift 28 ,28	.18	Mid-Shift	103	116	108	End-Shift	620	66° 3	690 3	used	64
lid-Shift 5 3	4									Tol. Prim. S	kimming
nal pH 7/0 1.45	7.37	WAS	Waste Rate	SS	SVI	PROCESS C	CONTROL	Polymer	Holding Tk.	2nd /84	011999
nal D.O. 10.01 11.67	11.41	SS mg/I	gpm	30 min		MLSS ·	MLVSS			1st 186	7791
nal Temp 220 220	200	3000	200	90	75	1200	700	250	32		208
IIFT 5 REMARKS (Events that are not p	part of daily rou	utine or checke	d off)				70 -				
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was broken	of MAN	ing it	don	19100	100	Tulkrad	Dumo	all The	word his	h Stud	as level
raft inon still	m 10	I Man	e. Jui	then in	2.21	I tores !	Mulla	Plortice	Dener	ateri	wasme
sorking (doubt li	nt wo	SORA	ushal	houl	ts u	eset Review	to, sto	it Bu	ent all	eny 91	2/11
IFT 3 REMARKS (Events that are not p									Charge Signatur		Date
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IFT 4 REMARKS (Events that are not p	art of daily rou	itine or checked	d off)				e, aminare	Oper. Ir	n Charge Signatur	e	Date
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	or Remarks:							Oper. Ir	Charge Signatur	mungs_	2 / // Date
nief Oper./Superintent / Direct	or Remarks:	i on t	10V 11	nokin	a ne	rise. M	Elan D	Oper. Ir	Charge Signatur	nungi_	2 / // Date

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Operational Daily Data Sheet

Date: 9 1 1		5)										4 979977			1400 and 140	0.022-20
Day: Friday	T	ime & Initi	ial.									T	ime 8	& Initi	al	
Operation /	5	3	4	Ope	ration	1						5		3	4	7
Check Plant	BIL	FL	FL	Clear	Orga	anic R	leturr	1	- 1		BU	ر ا	F	L	F	
Check Raw Sampler	BU	FL	F/	Ran S	skimn	ners /	Hose	ed Do	own			Ø				
Check Primary Tanks	BIL	FL	F/	Recir	culat	e Scu	m Sui	mp			ė				l S	
Check Settle Sampler	Bu	FL	FL	Recir	culat	e Sluc	ige H	oldin	ig Tk	C .	Bu	,				
Check Sludge Pumps	Bu	FL	FL			-	ag Pa				1,000	1			-	
# of Septic Haulers	1000	1	11				reen		ding		Bu		F	2	FL	
iii di Septio Hadicio		1/	111		End					100	BU		F	2	FL	
REPORT OFF:					NEEL	os:										
ner our orr		1,000,000									10					-
	#1) 															
Shift Readings:										100	Tu di jih					包证法
CHAMPION	G.M./LO	RDSTOWN	TREA	TED	(in CP2)		Sludg	e to l	Bioso	olids	pun	ping	_	circula	te pu	mp
2nd 433789	0 160	7263	523	98	00	7	2nd	81	00	18	ra	ite	2nd	90	13	18
1st 4337890	160	5887	524	159	110		1st	87	00	5	1	7	1st	93	08	-1
x1000		1376	1.	38	190	7	x1000			3)	тот.		5	7
M.G.D.	a J	376	1.	38	97	1 +	M.G.D.	-	ÔÓ	23					Ui	1
TEMPERATURE IN I	PF	RECIPITATI	ON													
201	Rain	650	Pel. Hail	Drav	w a strai	Control of the second	organización de la constante d			State Management				avy line	through i	hours
Max. Min. At Obsr		current	accum.		4					6.07	7	was no	9	10	11	12
84 65 65	1,85			A.M.	1	2	3	4	5	6	-	0	9	10	TT	12
THE RESERVE OF THE PARTY OF THE	for all type that o		served)		_	-		-	-		7	-		10	11	12
Fog Ice Pell. Glaze Th	ınder Hail	D. Wind		P.M.	1	2	3	4	5	6	-	8.	9	10	11	12
		1							_			8				
GASOLINE READINGS	# Initials	Raw pH	Temp	Re			n Cu,		\rightarrow		Terrentee	Pum	Rot	ation	Actio	n
2nd 84402 Inc	hes #5/3/1/	7.66	Noon		Grit		Scre	enir		Shift	lan li	5		3		4
1st 843/7 U	6 #3 FL	17.71	210	j				ti		Mid		,	1	<u>L</u>	_ '	
тот. 85 /	8 #4 FC	17.7%								End				<u> </u>	4	N
Primary Sludge Judge F	leading:									14. U			_			
These readings are to ensure p		_		100000000000000000000000000000000000000			1	1			_		1			
Tk#1 2400 400 8	00 1200	1600	2000	#2	24	00	40	00	8	00	12	200	10	500	20	000
Inches 1411 10 u	6" 14"	12.11	104						nearne.		2		<u> </u>			
Initials BUBU	FL FL	I FL	LFL.								<u> </u>		<u> </u>		<u></u>	# 100 - 1000
Tk #3			,	#4		4	T-1-1-2-1	****								1
Inches 18# 16#	2" /2"	12"	12"			371	10	711	F	1		0"	1	21	12	<u>." </u>
Initials BU BU	2 FL	I FL	I FL			SUL	13	uc	1	21'	Lt	<u></u>	<u>l</u> F		1-6	-
Tk #5				-	Comm	nents:										
Inches			2													
Initials																
EMPLOYEE'S NAME &			(P=Primary													
Nan	ne - Expension	JOB	HOURS	01	SICK	VAC	W/	UP		VISI	OR(S)	assi.	Need	0	UT
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5 Brentl	lieny	B	8										_	10000000000		
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3	7			Ger Mile						ا جات	444		_		-	10
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	di .	B	8				>							p		8-1

Date:	91.	3/11		ime & Initi	al		Day:	Sature	las	1		Ţ	Time &	Initial					
Start of Turn	for Ope	eration	5	3	4	During/E	nd of Tu	ırn Operatio	n /			<u> </u>	3			4			
Check Plant			BU	14	FL	Clean Cl2	Probes	3440.	SEN OF				74						
Check-Aerati	ion Tks.		BU	TH	FL	Drain Cor	ndensati	e							FL				
Check Sludge	e Draw o	off Flow	BIL	Ty	FL	Clean Tub	oes @Fir	nal Clar, Tks.											
Check Gener	rator		BU	13	FL			ab & Meter	4094	-									
Check Strain	er		1311	TY	FL	Plant End	Check				BU		1/2		FL				
Fin. Clar. Slu	udge Juc	lge Readin	ig (dayturn)			Check Fin	ial Sam	pler			BU		Ty		1-6	4			
Tk1 4"	Tk 2	Tk3 4"	Tk44		¥				200	91/90/			12			CI	2 Scale	(q) (-)	
Cl2 Resdual	5	3	4	De-Cl Res.	The second second second	3	4	Boiler	Temp	Psi	Temp	Psi	Temp	Psi		1st	193	6	
Start Shift	24	100	114	Start Shift		.02	,10	Mid-Shift	-	0	700	0	70	3		2nd	18%	2	
Mid-Shift	,26	,31	1.18	Mid-Shift	,04	104	,07	End-Shift	64	10	70	0	7/0	3		used	0	4	
Mid-Shift	5	3	4								7		Т			Prim. S	kimmi	ng	
Final pH	7,33	7.45	17.47	WAS	Waste Rate		SVI	PROCESS		-	Poly	mer	Holdir	ng Tk.	2nd	180	000	201	
Final D.O.	1121	11.63	11.50	SS mg/I	gpm	30 min		MLSS	ML	VSS	-				1st	100	177	7	
Final Temp	230	23"	240										17				30	2	
SHIFT 5 REMAR	KS (Events	that are not p	art of daily rou	utine or checke	ed off)				-	/	115	4-7-							
Missed	Lu	tion i	back	21-11/A	-on	first	tou	n, Bea	ches	1	llege	rte	RON	ne,	NU	mole	<u> </u>		
Raisea	1 px	dipull	TOI	24.0	AF US	Dum	eing	down	SI	ugh	L. Un	r W	IELL			00			
						, ,				•0		16.	#1	Mar		91	21	17	
SHIFT 3 REMAR	KS /Events	that are not n	art of daily rou	iting or chacke	ed off)				## 300			Oper Ir	n Charge S	Signatur	e/		Dat	<u></u>	silb
O-	iko (Events	me are not p	art or ually roo	itile of checks	2 1/2 1/2			me Lubr	: ZI 45 '	tions	1:1					Walke		J	J.H A
Drained -	# Z + 1	* 5 prima	CA ALL	VICE OF THE	Mis Man	and A	IMMA	eased R	Dilai	Tim	e H	ish	Slu	dee	Ble	en Ke	T 57	METI V	to
PAN#3	Oliman	Shulla	e Dilmor	CAI M	ALUEL	+ INCR	rased	RUN Time	F	loat		77	lude						
INCREASE	1 Soru	ice num	ter to D	AF. LO	wered	Process	Air	Flow:	18	-66	- 10	0	SerVi	رو س	ter	55	2/0		
Subnatan	T was	DARK	+ Murk	y, Slud	ge WAS	5 RUNA	ling	off into	5/0	idse (vell		n Ya			91_	31	<u>//</u>	
SHIFT 4 REMAR	IKS (Events	that are not p	art of daily rou	itine or checke	ed off)							Oper. Ir	Charge S	Signatur	e	entre de la company	Dat	e	
11: 1 -1 1	,		. 7,				h. 144	1 6	~ 11	/	4.0								
High Sluce	cge in	primary	tank 7	17 ran	pomp	on provi	DIN UA	1 for	10 1	דעתווח	e)						711 5-3-111		
			*			w,						74			1	1.			
			35050.7			-					-	40	Mens	YIM	Willy	191	3/	11	
Chief Oper./S	uperinte	nt / Directo	or Remarks									Oper. Ir	1 Charge S	Signatur	e		Dat	е	
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Operational Daily Data Sheet

Date: 7 / 5 / //				101								64 - 5 - 5		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, Original Property and Name of Stree		water bridge
Day: Saturday	Ti	me & Initi	al.				,					I	ime 8	& Initi	al	
Operation /	5	3	4	Ope	ration	7						5		3	4	1
Check Plant	BIL	Tr	FL	Clear	n Orga	anic F	Retur	1			BU	/	Ty	~	_F	
Check Raw Sampler	Bu	TY	FL	Ran S	Skimn	ners /	/ Hose	ed Do	wn							
Check Primary Tanks	BU	Ty	FL	Recir	culate	e Scu	m Sui	mp						1		
Check Settle Sampler	BU	TY	FL	Recir	culate	e Slu	dge H	olding	Tk.			who is				
Check Sludge Pumps	BU	TI	F/		ped G					S6.11-4		1				
# of Septic Haulers	100	1.0						Build	ing		BUL		·ru	,	F	7
in or seption nations			h		End		12 11817 1217			-0.000	BU	,	78	-	F	L
REPORT OFF:			207 (2012)		NEEL) 5:								,		
						5-2-3		V-1								
										- 10 PM						
Shift Readings:	TO SERVICE				41											
CHAMPION	G.M./LOF	RDSTOWN	TREA	TED	(in CP2)	١,	Sludg	e to B	ioso	lids	purr	ping	Re	circula	te pu	mp
2nd 433 7890	1607	825	527	12	54	1_	2nd	87	00	08	ra	ite	2nd	45	13.	8
1st 4337890	1607	263	525	78	07	1	1st	87	10	8		2	1st	93	13.	8
x1000		562	11	4	407		x1000	11(00)	- 1	0	()	TOT.	•	1	W.
M.G.D.	10	562	11	44	17		M.G.D.		(2		,		2	U	
TEMPERATURE IN F	PR	ECIPITATI	ON	NEW N		THE.			KINS.		ALVIS		Male		No.	
	Rain,		Pel. Hail	Dray	w a strai	ght line	throug	h hours	oreci	pitatio	n was ol	bserved	and a w	avy line I	hrough	hours
Max. Min. At Obsn.	Melt Snow	current	accum.					ation pro	75	•						
900 650 670	0			A.M.	1	2	3	4	5	6	7	8	9	10	11	12
WEATHER (Mark "X" for a	ll type that oc	cur during ob	served)													
Fog Ice Pell. Glaze Thunder	Hail	D. Wind		P.M.	1	2	3	4	5	6	7	8	9	10	11	12
			-	1 1												
7-1 120		5 11 223														- 0
GASOLINE PEADINGS	# Initials	Raw nH	Temp	Re	mova	able i	n Cu.	Yards	<u> </u>	7	/lain	Pumi	Rot	ation	Actio	n
GASOLINE READINGS	# Initials	Raw pH	Temp	Re	-			Yards				SECTION 1		ation	Name of Street	2005 Lillian
2nd 844.15 Inches	#5 BU	Raw pH 7.68	Noon	Re	mova Grit			Yards	gs :	Shift		Pum _l		3	Name of Street	n 1
2nd 844.15 Inches 1st 84402 402	#5 BU #3 Ty	Raw pH 7.68 7.71	AND DESCRIPTION OF THE PARTY OF	Re	-				gs	Shift Mid		SECTION 1		3	Name of Street	eval allo
2nd 844.15 Inches 1st 84402 408 тот. 13	#5 BU #3 TY #4 FL	Raw pH 7.68 7.71	Noon	Re	-				gs	Shift		SECTION 1		3	Name of Street	EXAMPLE DIST
2nd 844.15 Inches 1st 84402 408 тот. 13 408 Primary Sludge Judge Read	#5 BU #3 Ty #4 FL	7.68 7.71 7.70	Noon 2/°		Grit		Scre	enin	gs :	Shift Mid End	4	5	4	3		1
2nd 844.15 Inches 1st 84402 408 Tot. 13 408 Primary Sludge Judge Read These readings are to ensure proper	#5 BU #3 TY #4 FL ings operations of	7.68 7.71 7.70 these tanks.	Noon 2/° Adjustment	s of pu	Grit mping	time a	Scre	enin	gs :	Shift Mid End mani	4 ntain t	he slud	4 I	ween 6	to 12 i	nches.
2nd 844.15 Inches 1st 8440.2 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/6 Adjustment 2000		Grit mping		Scre	enin	gs :	Shift Mid End	4 ntain t	5	4 I	3	to 12 i	1
2nd 844/15 Inches 1st 84402 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36	#5 BU #3 TY #4 FL ings operations of	7.68 7.71 7.70 these tanks.	Noon Adjustment 2000 30	s of pu	Grit mping	time a	Scre	enin	gs :	Shift Mid End mani	4 ntain t	he slud	4 I	ween 6	to 12 i	nches.
2nd 844.15 Inches 1st 8440.2 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/6 Adjustment 2000	s of pu	Grit mping	time a	Scre	enin	gs :	Shift Mid End manii	4 ntain t	he slud	4 I	ween 6	to 12 i	nches.
2nd 844.15 Inches 1st 8440.2 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon Adjustment 2000 30	s of pu	Grit mping	time a	Scre	enin	gs :	Shift Mid End mani	4 ntain t	he slud	4 I	ween 6	to 12 i	nches.
2nd 844.15 Inches 1st 8440.2 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/° Adjustment 2000 30°	s of pu	Grit mping	time a	Scre	enin	gs :	Shift Mid End manii	4 ntain t	he slud	4 I	ween 6	to 12 i	nches.
2nd 844/5 Inches 1st 84402 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials but but 73 Tk #3	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/° Adjustment 2000 30°	s of pu	Grit mping	time a	Scre	enin	gs :	Shift Mid End manii	4 ntain t	he slud	4 I	ween 6	to 12 i	nches.
2nd 844.15 Inches 1st 8440.2 108 Tot. 13 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10"	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/° Adjustment 2000 30°	s of pu	Grit mping	time a	Screeto l	enin	gs se to 80	Shift Mid End mania DO	ntain t	he slud	ge bet	ween 6500	to 12 l	nches.
2nd 844.15 Inches 1st 8440.2 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10" Initials BU BU 73	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/° Adjustment 2000 30°	s of pu	mping 24	time a	Screeto l	pe mad	gs se to 80	Shift Mid End mania DO	ntain t	he slud	4 I	ween 6500	to 12 l	nches.
2nd 844.15 Inches 1st 8440.2 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 75 Tk #3 Inches 10" 12" 10" Initials BU BU TY Tk #5	#5 BU #3 T3 #4 FL ings operations of 1200	7.68 7.71 7.70 these tanks.	Noon 2/° Adjustment 2000 30°	s of pu	mping 24	time a	Screeto l	pe mad	gs se to 80	Shift Mid End mania DO	ntain t	he slud	ge bet	ween 6500	to 12 l	nches.
2nd 844.15 Inches 1st 8440.2 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials but 500 73 Tk #3 Inches 10" 12" 10" Initials But 300 73 Tk #5 Inches Initials	#5 BU #3 TY #4 FL ings operations of 1200 '38" TY	7.68 7.71 7.70 these tanks. 1600 40" FL	Noon 2/° Adjustment 2000 30" FL 12" FL	#2 #4	mping 24	time a company of the	Screeto la 40	pe mad 00	e to 80	Shift Mid End manin manin 200	la la Ru	he slud	ge bet	ween 6500	to 12 l	nches.
2nd 844.15 Inches 1st 8440.2 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10" Initials BU BU 73 Tk #5 Inches	#5 BU #3 TY #4 FL ings operations of 1200 '38" TY	7.68 7.71 7.70 these tanks. 1600 40" FL	Noon 2/° Adjustment 2000 30" FL 12" FL	#2 #4 #4	mping 24	time a cool of the	Screeto la 40	eenin	gs se to 80	Shift Mid End manin manin 200	la la Ru	he slud	ge bet 10	ween 6500	to 12 l	nches.
2nd 844.15 Inches 1st 8440.2 108 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10" Initials BU BU 73 Tk #5 Inches Initials	#5 BU #3 Ty #4 FL inge operations of 1200 138" 19-	7.68 7.71 7.70 these tanks. 1600 40" FL	Noon 2/° Adjustment 2000 30" FL 12" FL	#2 #4 #4	mping 24	time a cool of the	Screeto la 40	eenin	gs se to 80	Shift Mid End manin manin 200	12	he slud	ge bet 10	ween 6 500	to 12 l	nches.
Ist 844.75 Inches 1st 844.75 Inches Tot. 13 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10" Initials BU BU 75 Tk #5 Inches Initials EMPLOYEE'S NAME & HOUName	#5 BU #3 Ty #4 FL inge operations of 1200 138" 19-	7.68 7.71 7.70 these tanks. 1600 40" FL	Noon 2/° Adjustment 2000 30" FL 12" FL	#2 #4 #4	mping 24	time a cool of the	Screeto la 40	eenin	gs se to 80	Shift Mid End manin manin 200	12	he slud	ge bet 10	ween 6 500	to 12 l	nches.
2nd 844.75 Inches 1st 8440.3 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10" Initials BU BU 73 Tk #5 Inches Initials EMPLOYEE'S NAME & HOUNAME 5 5 Contact Support	#5 BU #3 Ty #4 FL inge operations of 1200 138" 19-	7.68 7.71 7.70 these tanks. 1600 40" FL	Noon 2/° Adjustment 2000 30" FL /2" FL	#2 #4 #4	mping 24	time a cool of the	Screeto la 40	eenin	gs se to 80	Shift Mid End manin manin 200	12	he slud	ge bet 10	ween 6 500	to 12 l	nches.
2nd 844.75 Inches 1st 844.03 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" / // 36 Initials blu blu 73 Tk #3 Inches / // // // // // // Initials blu blu 73 Tk #5 Inches Initials EMPLOYEE'S NAME & HOU Name 5 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	#5 BU #3 Ty #4 FL inge operations of 1200 138" 19-	7.68 7.71 7.70 these tanks. 1600 40" FL Job Code: Job	Noon 2/° Adjustment 2000 30" FL /2" FL	#2 #4 #4	mping 24	time a coordinate of the coord	Screeto la 40	eenin	gs se to 80	Shift Mid End manin manin 200	12	he slud	ge bet 10	ween 6 500	to 12 l	nches.
2nd 844.75 Inches 1st 8440.3 408 Primary Sludge Judge Read These readings are to ensure proper Tk #1 2400 400 800 Inches 8" 10" 36 Initials BU BU 73 Tk #3 Inches 10" 12" 10" Initials BU BU 73 Tk #5 Inches Initials EMPLOYEE'S NAME & HOUNAME 5 5 Contact Support	#5 BU #3 Ty #4 FL inge operations of 1200 138" 19-	7.68 7.71 7.70 these tanks. 1600 40" FL	Noon 2/° Adjustment 2000 30" FL /2" FL	#2 #4 #4	mping 24	time a coordinate of the coord	Screeto la 40	eenin	gs se to 80	Shift Mid End manin manin 200	12	he slud	ge bet 10	ween 6 500	to 12 l	nches.

Date: 9 4 1/1	The same of the sa	ime & Init		Day:	7710111	A CONTRACTOR OF THE PARTY OF TH	Time & Initia		
Start of Turn for Operation	5	3	4	During/End of T		5	3	4	
Check Plant	BU	75	FC	Clean Cl2 Probes			Ty		
Check Aeration Tks.	BU	13	FL	Drain Condensat	e				
Check Sludge Draw off Flow	BU	734	FL	Clean Tubes @Fi					
Check Generator	BU	By	FL	Clean Operator L	ab & Meter				
Check Strainer	BU	18	FL	Plant End Check		BU	TY	FL	
Fin. Clar. Sludge Judge Readi	ng (dayturn)			Check Finial Sam	pler	BU	Ty	FL	4
Tk1 2" Tk2 2" Tk3 4	Tk42"							Cl2	Scale
IZ Resdual 5 3	4	De-Cl Res.	5	3 4	Boiler Temp Psi	Temp Psi	Temp Psi	1st	187
start Shift 17 314	,22	Start Shift	.03	.04 .08	Mid-Shift 65° 0	10° 0	10° 3	2nd	1800
Mid-Shift ,23 ,15	,19	Mid-Shift	.01	04 04	End-Shift 62° C	7100	70 3	used	72
Mid-Shift 5 3	4		84.					Tol. Prim. Sk	immin
inal pH 7,38 7.44	7.50	WAS	Waste Rate	SS SVI	PROCESS CONTROL	Polymer	Holding Tk.	2nd / 86	85
inal D.O. 11.59 11.52		SS mg /l	gpm	30 min	MLSS MLVSS			1st 186	830
inal Temp 23° 70°	230								25
HIFT 5 REMARKS (Events that are not	part of daily rou	itine or checke	ed off)					<u> </u>	~
,		-tille of ellegin	.0.0117	L			the state of the s		
					A CONTRACTOR OF THE CONTRACTOR			WILE - 17-	
					<u> </u>			,	
						//		/.	
	11389 II. Vo		THE CO.			Bu	ust Ul	in 910	111
HIFT 3 REMARKS (Events that are not	part of daily rou	itine or checke	ed off)			Bu Oper. Is	cost Old n Charge Signatum	in 91	Date
TWAS #2 Leaking 5	ludge . h	05 ed 00	npana	floor.		Br. Oper. Is	crit Ulli n Charge Signatum	912	Date
TWAS #2 Leaking 5	Manual	05 ed 00	npana	Leor. dge BlankeT		Bu Oper. In	unt UU n Charge Signatum	912	Date
TWAS #2 Leaking S RAN # 1 primary ow M +304Primary pumps lea	Nanval King	to Rodo	npana ice slu	dge BlankeT		Bu Oper. Is	charge Signatur	914	Date
TWAS #2 Leaking 5 RAN # 1 primary ow M +3+4Primary pumps lea DAF Sludge Looks	Nanval King	to Rodo	npana ice slu	dge BlankeT		Bu Oper. In	n Charge Signatur	914	Date
TWAS #2 Leaking S AND # 1 primary own #304 Primary pumps lea DAF Sludge Looks 39% - 41%	Nanval Ranval King Good N	osed pur to Rodo	npand ice slu iff, Si	dge BlankeT		7	m Yough	n 91	4]]
TWAS #2 Leaking S RAN # 1 primary ow M +3+4Primary pumps lea	Nanval Ranval King Good N	osed pur to Rodo	npand ice slu iff, Si	dge BlankeT		7		n 91	Date
TWAS #2 Leaking S AN # 1 primary own #354 Primary pumps lea DAF Sludge Looks 39% - 41%	Nanval Ranval King Good N	osed pur to Rodo	npand ice slu iff, Si	dge BlankeT	av & Clear.	7	m Yough	n 91	4]]
TWAS #2 Leaking S RAN # 1 primary ow P #3+4Primary pumps lea DA F Slucige Looks 39% - 41% HIFT 4 REMARKS (Events that are not p	Nanval Ranval King Good N	osed pur to Rodo	npand ice slu iff, Si	dge BlankeT		7	m Yough	n 91	4]]
TWAS #2 Leaking S RAN # 1 primary ow P #304Primary pumps lea DAF Sludge Looks 39% - 41% HIFT 4 REMARKS (Events that are not p	Nanval Ranval King Good N	osed pur to Rodo	npand ice slu iff, Si	dge BlankeT	av & Clear.	Oper. Ir	om Yauge n Charge Signatur	4 9 J	4]]
TWAS #2 Leaking S RAN # 1 primary ow P #304Primary pumps lea DAF Sludge Looks 39% - 41% HIFT 4 REMARKS (Events that are not p	Nanval Ranval King Good N	osed pur to Rodo	npand ice slu iff, Si	dge BlankeT	av & Clear.	Oper. Ir	om Yauge n Charge Signatur	4 9 J	4]]
TWAS #2 Leaking S RAW # 1 primary ow h #334frimary pumps lea DA F Sludge Looks 39% - 4/1% HIFT 4 REMARKS (Events that are not p	The dge. B Mansvect King Good N part of daily rou	osed pur to Redu O Run · c	d off)	dge BlankeT	av & Clear.	Oper. In	om Yauge n Charge Signatur	n 91.	9 J _ A
TWAS #2 Leaking S RAN # 1 primary ow P #304Primary pumps lea DAF Sludge Looks 39% - 41% HIFT 4 REMARKS (Events that are not p	The dge. B Mansvect King Good N part of daily rou	osed pur to Redu O Run · c	npand ice slu iff, Si	dge BlankeT	av & Clear.	Oper. In	om Yauge n Charge Signatur	n 91.	4]]

CILY OF WALLETT WALL

Operational Daily Data Sheet

Date:	4	4	/	-	9									Brown to the Company of the Company	0				
Day:	Su	nda	V	1	ime & Init	ial									Ī	ime	& Init	ial	
Opera	tion		7	5	3	4	Оре	eratio	n						5		3		4
Check	Plant		1	BIL	Th	FL	Clea	n Org	anic	Retur	n	1,822		BU	,	13	_	F	
Check	Raw San	npler		BUL	Th	FL	Ran	Skimi	mers	/ Hos	ed D	owr)						
	Primary			BUL	12	FZ	Reci	rculat	te Scu	ım Su	mp								
	Settle Sa			BII	TY	FL	-			dge H		ng T	k.						
	Sludge F			BIL	TY Ty	FL.	-			ag Pa				7825	yes	70. TE		FL	
	ptic Hau				100					creen	200	ding		Bu	1	Ty	,	FL	
					D.		-	t End	-		-			BU		14		FL	
REPOR	T OFF:	17/			A STATE OF THE PARTY OF THE PAR			NEE	DS:								9		
																		1.50	
Shift F	Reading	MINI THE RESERVE																	
		HAMPI	to Maria and Maria		RDSTOWN	TREA	ATED	(in CP2	2)	1	ge to	220%	olids		nping		circul	ate pu	ımp
2nd	4,33	0 1	90	1600	355	5xX	56	50		2nd	X	10	80	ra	ate	2 _{nd}	70	2/5	<u>5.8</u>
1st	433	183	10_	160%	825	321	12	54		1st	8	10	08	1	7	1st		1/5	28
x1000		0_			530		94	01		x1000		0		4	1	TOT.			")
M.G.D.						L CARRO	- 4			₩.G.D.			_					_	
	MPER/	ATURE	IN F	THE RESERVE AND ADDRESS OF THE PARTY OF THE	ECIPITATI	TO IN THE RESERVE OF							benty						
Max.	Min.	84.6	Obsn.	Rain, Melt Snow	distributed and distributed	Pel. Hail	Dra	w a stra	0.000	Section of the Sectio			STATE OF THE PARTY					through	hours
-	676	6		(),26	current	accum.	A.M.	1	2	3	4	5	6	7	was no	9	10	11	12
93	EATHE						A.IVI.	-		3	-	3	-	-	0	3	10	TT	12
			Thunder		cur during ob D. Wind	The state of the s	P.M.	1	2	3	4	5	6	7	8	9	10	11	12
Fog	ice Pell.	Glaze	Inunder	Пан	D. Willu	KAIN	P.IVI.	1	-	3	-	3	0	-	0.	3	10	11	12
						X								<u></u>		<u>—</u>			
	ASOLINI	READIN	NAME OF TAXABLE PARTY.	# Initials	Raw pH	Temp	Re			n Cu,		-		-		The state of the s		Actio	מכ
2nd	840	1/15	Inches	#5/B/L	7.71	Noon	2	Grit		Scre	eni	ngs	Shift		5		3		4
1st	849	115	408	#3 79	7.96	210				1)		Mid	1	4 .	1	,	14	ł
TOT.	1	1	708	#4 FL	7.70		<u></u>			<u>`</u>	<u>L</u>		End	/		4	<u></u>	4	
			ge Read																
THE RESIDENCE OF THE PERSON NAMED IN					f these tanks.		DESCRIPTION OF THE PARTY OF									1			
Tk #1	2400	400	800	1200	1600	2000	#2	24	100	40	00	. 8	00	12	200	16	500	20	000
Inches	24	12"	28	36"	40"	36"	1			ļ						<u> </u>			
Initials	DU	1300	179	77	FL	FL								<u> </u>					
Tk #3	,,,,,,	1.77	1 40	Light 8"	10	1 / 6	#4		111	1 1/	21/	· 13	_	219	ht	1 12	~	r 1	0.11
Inches	16"	190	12"	8"	12	5		1	1"	12	-	10	2"	8	<i>"</i>	<u>LL.</u>	<u> </u>		211
Initials	1211	RU	474	174	1 +2	FL	j	12	W	130			73	18		1	<u> </u>	F	<u></u>
Tk #5			Υ	т	1		1	Comn	nents:	y			··	-					
Inches			ļ			V.													
Initials				V											(Inches)				
EMPL	OYEE'S		& HOU	RS		(P=Primary										-			
		N	lame	Shell Wally live	JOB	HOURS	OI	SICK	VAC	W/	UP		VISIT	ORIE	5)		N	O	UT
5	0		1 11	828	100	-			_				0 E						
5	Pice	ent	Ulia	iny.	B	8	2	V			\leq						х.	65	
3																			
3	1.6	lauger			B	8			_										
4	V	Y .				~								-					
4	FL	omb	ardi		B	8				2	\leq								

Date: 9/5/11	T	ime & Initi	al	ľ	Day:	MONI	100		Time & Initia		
Start of Turn for Operation	5	3	4	During/E		urn Operatio		5	3	4	
Check Plant	M	74	FL	Clean Cl2	Probes	3		M	74		2
Check Aeration Tks.	m	Tin	FL	Drain Co	ndensat	:e		100		FL	
Check Sludge Draw off Flow	m	TH	FL	Clean Tu	oes @Fi	inal Clar. Tks.					
Check Generator	M	TÝ	FL			ab & Meter		M	TY		
Check Strainer	m	TY.	FL	Plant End	Check			M	TY	FL	2
Fin. Clar. Sludge Judge Readin	g (dayturn)	•		Check Fir	nial Sam	pler	# The Part of the	off	Ty	FL	
Tk1 2" Tk22" Tk3 4"	Tk42"			9.		<					2 Scale <i>8 0</i> 0
CI2 Resdual 5 3	4	De-Cl Res.	5	3	4	Boiler			the second secon	1st	
Start Shift ,17 a/9	,20	Start Shift		,03	,07	Mid-Shift	C/	100	66° 3	2nd	1728
Mid-Shift .19 .20	.20	Mid-Shift	e O j	001	.09	End-Shift	6 0	6700	66 3	Tol Dvice (72
Mid-Shift 5 3	4		at and the state of				CONTROL	Dalimann	T	Tol. Prim. S	V 20 C
Final pH 7,44 7,55	1,69	WAS	Waste Rate		SVI	PROCESS	MLVSS	Polymer	Holding Tk.	2nd / 8 (8558
Final D.O. 11 54 11.70	11.72	SS mg /I	gpm	30 min		MLSS	MILVSS	-		150 / 0 (16338
Final Temp 23 22°	22					2					236
SHIFT 5 REMARKS (Events that are not pa						- 2	4	CA 1/ /			7.
RANTIPrim ON MAN.	Also Adj	just: ti	mer - 1	DAF RO	IN SI	mooth No	Run of	f 16 = G	6-65 SE	ruice Wat	er 66
SAW DEET INSIDE	tence.	Live By	/ CIAR.	- RAIN	HAR	D But Flo	STAN	ed about	I'I Mga.		
45-47						A SUCCESSION .			men	- 91	5/11
SHIFT 3 REMARKS (Events that are not pa	ert of daily rou	tine or checke	d off)					Oper.	In Charge Signatu		Date
# RAN # 1 primary Slu	dge pu	mp ON	MaNE	val Se	vera	1 30 min	s. Sessi	ons			
Adjusted Row Timers	010 #	3+49	1 Slude	ge our	105.						
A			U		/		is acres			<u> </u>	
47%49%	2						S E Drawn		mn falle	<u> </u>	5111
SHIFT 4 REMARKS (Events that are not pa	art of daily rou	tine or checke	d off)					Oper.	In Charge Signatu	ıre	Date
						A CONTRACTOR OF THE PARTY OF TH					
								6	Dan A. C.	And to	6/11
					-				runt you	WWW 7)_	
Chief Oper./Superintent / Directo	r Remarks:					€		Oper.	In Charge Signatu	are	Date
		or Military pos					3000 pp. 40 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10				
					e Marine Property						

Operational Daily Data Sheet

9 15 111 MONDAY Time & Initial Day: Time & Initial Operation 5 3 4 Operation 5 4 FL FL Check Plant MA Clean Organic Return The Ma The oft Check Raw Sampler Th Ran Skimmers / Hosed Down Check Primary Tanks Recirculate Scum Sump Th ofe FL Recirculate Sludge Holding Tk. Check Settle Sampler M FL M Dumped Grit/Rag Pan Check Sludge Pumps no Dump Pan in Screen Building # of Septic Haulers m Plant End Check M **NEEDS:** REPORT OFF: **Shift Readings:** G.M./LORDSTOWN **CHAMPION** TREATED (in CP2) Sludge to Biosolids pumping Recirculate pump 00835 87008 1602920 2nd rate 1st 700 8 1st 1st 5180 x1000 0 x1000 TOT. M.G.D. M.G.D. **TEMPERATURE IN F PRECIPITATION** Snow ice Pel. Hail Rain, Draw a straight line through hours precipitation was observed and a wavy line through hours Max. Min. At Obsn. **Melt Snow** current accum. precipitation probably occurred but was not observed. 780 630 1.40 0.10 A.M. 1 11 12 10 WEATHER (Mark "X" for all type that occur during observed) 1 2 Fog Ice Pell. Glaze Thunder Hail D. Wind RAIN P.M. 3 4 5 6 7 8 9 10 11 12 GASOLINE READINGS # Initials Raw pH Temp Removable in Cu, Yards Main Pump Rotation Action Inches #5 Grit Screenings Shift Noon 5 #3 79 1st 84415 Mid 108 #4 FL End TOT. **Primary Sludge Judge Reading:** These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. Tk #1 2400 400 800 1200 1600 2000 #2 2400 400 800 1200 1600 2000 6" 401 ThiN 10 24 28 10 Inches m Initials M #4 Tk #3 8 Inches Initials Tk #5 Comments: Inches Initials **EMPLOYEE'S NAME & HOURS** Job Code: (P=Primary S=Secondary B= Primary/Secondary) JOB | HOURS | OT SICK VAC | W/UP | VISITOR(S) OUT Name 5 5 3 3 4

4

Date: 9 6 11	i de la T	ime & Initi	ial		Day:	Tuesd	AY			Time & Init	ial	3 4 5 3
Start of Turn for Operation	5	3	4	During/I		urn Operation		A STATE OF THE PARTY OF	5	3		4
Check Plant	m	Ty	FL	Clean Cl	2 Probes				M	TY		
Check Aeration Tks.	M	Ty	FL	Drain Co	ndensat	е				,		
Check Sludge Draw off Flow	m	Tin	FL	Clean Tu	bes @Fi	nal Clar. Tks						
Check Generator	m	78	FL	Clean Op	erator l	ab & Meter			m			
Check Strainer	m	73	FL	Plant En	d Check				m	Th	F	7
Fin. Clar. Sludge Judge Readin	g (dayturn)			Check Fi	nial Sam	pler			m	Ty	F	
Tk1 2" Tk22" Tk3 2"	Tk4 2"								·			Cl2 Scale
Cl2 Resdual 5 3	4	De-Cl Res.	5	3	4		Temp	Psi	Temp Psi	Temp Ps		1st 1728
Start Shift ,22 ,23	116	Start Shift		001	,06	Mid-Shift		0	620	6/0 3	4	2nd /660
Mid-Shift ,20 a 19	.19	Mid-Shift	.03	æ 00	.08	End-Shift	0	0	620 0			used 68
Mid-Shift 5 3	4		· · · · · · · · · · · · · · · · · · ·		,-						A CHARLES THE PARTY OF THE PART	rim. Skimming
Final pH 7,62 7,71	7.59	WAS	Waste Rate	SS	SVI	PROCESS	1		Polymer	Holding Tk		1869035
Final D.O. 11,54 11,81	11.41	SS mg /l	gpm	30 min	7	MLSS	ML	/SS			1st	1868794
Final Temp 21 2/°	220	2300	200	80	826	968	52	26	220	53		241
SHIFT 5 REMARKS (Events that are not pa				51% :	5390							
PACKING ON #4prim	pump	NeeD	s CKING	g- a- [Draina	ge puny	1 7 0	iN	Lower S	ec Tur	unel.	
										men	1	916 111
SHIFT 3 REMARKS (Events that are not pa	rt of daily rou	tine or checke	d off)					30	Oper. I	n Charge Signat		Date
Maint Cleaned	20/4me	C 011	mo, 6	200 00	JUME	T RUN	- O-f-	G 11	VA TA	Total and the state of	- /	
Keep an eye on'		may 1	sé ab			wer p			To h	elo 7	ANK	#/
#2 organic Squ	ealin	ig 94	Her i	clean	ing	/	.0			7		
53%-43%	W 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								10	m Laus	a	916111
SHIFT 4 REMARKS (Events that are not pa	rt of daily rout	ine or checke	d off)						Oper. I	n Charge Signat	ure	Date
430/0 + 450							sab					
bumped polymer -	10 25	Sludge	seemed	thin	in to							
Hosed of b primary	wump o	s/velo	leaked	3 +11	06 DI	imary be	MID F	#3				
Had to restart hydro	electric	gen	englow	3 4/4	nes d	vuing si	14		- Up	unt Gu	marks	191611
Chief Oper./Superintent / Director	Remarks:		***************************************				100		Oper. I	n Charge Signat		Date
												-
	-wear											

Operational Daily Data Sheet

Date: 9 6 11 Tue Time & Initial Time & Initial Day: 5 5 Operation 3 Operation 3 TY FL Check Plant M Clean Organic Return M TY Ran Skimmers / Hosed Down Check Raw Sampler Recirculate Scum Sump Check Primary Tanks TY Recirculate Sludge Holding Tk. Check Settle Sampler M TY Dumped Grit/Rag Pan Check Sludge Pumps FL m nn **Dump Pan in Screen Building** # of Septic Haulers Plant End Check **NEEDS:** REPORT OFF: **Shift Readings:** G.M./LORDSTOWN CHAMPION TREATED (in CP2) Sludge to Biosolids pumping Recirculate pump 3265 1610345 337890 00.8 rate 2nd 2nd 1608920 00.8 1st 1st 1st x1000 2430 x1000 G.A TOT. M.G.D. M.G.D. **TEMPERATURE IN F PRECIPITATION** Snow ice Pel. Hail Rain, Draw a straight line through hours precipitation was observed and a wavy line through hours Max. Min. Melt Snow At Obsn. current accum. precipitation probably occurred but was not observed. 70 560 A.M. 1 2 3 4 5 10 11 12 WEATHER (Mark "X" for all type that occur during observed) Fog Ice Pell. Glaze Thunder Hail D. Wind P.M. 1 2 5 7 9 10 11 12 3 4 8 # Initials Raw pH Removable in Cu, Yards **Main Pump Rotation Action GASOLINE READINGS** Temp #5 Grit Screenings Shift 2nd 8 44 lola Inches Noon 1st 84415 #3 77 Mid 39 = #4 TOT. End Primary Sludge Judge Reading: These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. 1200 2000 2400 Tk #1 2400 1600 #2 400, 800 1200 1600 2000 400 800 36 30 Inches Initials Tk #3 #4 411 104 Inches Initials Tk #5 Comments: Inches Initials **EMPLOYEE'S NAME & HOURS** Job Code: (P=Primary S=Secondary B= Primary/Secondary) OUT JOB HOURS OT SICK VAC W/UP VISITOR(S) Name 5 5 B 3 13 8 3 8 4

Date:	91	7/11	T	ime & Init	ial		Day:	WED			Time & Initial		
Start of Tu	rn for Op	eration	5	3	4	During/E	nd of Tu	ırn Operatio		5	3	4	Ct.
Check Plan			m	The c	D	Clean Cl2	Probes			M	TF		
Check Aera	tion Tks.	*	M	Ty	1	Drain Co	ndensat	е					
Check Slud	ge Draw	off Flow	·M	74	70	Clean Tu	bes @Fi	nal Clar. Tks.					
Check Gene	erator	*	m	T3 (17)	Clean Op	erator L	ab & Meter		M			
Check Strai	iner		M	Ty 1	1	Plant End	Check			M	Tr. S		
Fin. Clar. S	iludge Jud	dge Readin	g (dayturn)			Check Fir	nial Sam	pler		M	Ty	0	
Tk1 2"	Tk2 7	Tk3 4"	Tk4 2 6							200		C	2 Scale
Cl2 Resdual	5	3	4	De-Cl Res	. 5	3	4	Boiler	The second secon		Temp Psi	1st	1660
Start Shift	*18	,26	23	Start Shift	40.	.02	03	Mid-Shift	8 9	60°0	60 0	2nd	1588
Mid-Shift	1,24	27	30	Mid-Shift	,02	05	15	End-Shift	ØØ	600	600	used	.72
Mid-Shift	5	3	4			2900			W H			Tol. Prim. S	
Final pH	7.53	7.58	7.69	WAS	Waste Rate	SS	SVI	PROCESS-	CONTROL	Polymer	Holding Tk.		9145
Final D.O.	11.51	11.63	11.72	SS mg /i	gpm	30 min		MLSS	MLVSS		-	1st /86	,9035
Final Temp	21	210	210	3300	200	80	67.8	1198	68C	575	50		110
SHIFT 5 REMA	ARKS (Events	that are not p	art of daily rou	itine or check	ed off)	45-40							
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from R	AWZ	DAF	Stude	2-HA	D to 5	top flic	intso	N BEACL	INDA	<u> </u>		*	
											1144	41/	7/11
SHIFT 3 REMA	DVS /Functo	that are not a	art of daily cou	ting or chack	ed off)						n Charge Signatur	re	Date
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SHIFT 4 REMA	ARKS (Events	that are not p	art of daily rou	itine or check	ed off)					Oper. I	n Charge Signatur	re	Date
	o be	ach:	DAT					040	bleAC	<u> </u>			
Sluc	YGE.	looking	Alit	HE B	effer	BEAC	14	L-times					
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16110,		- ! -	markeen ann an an an								ewy,	11/40/91	711
Chief Oper./	/Superinte	ent / Directo	r Remarks:					N		Oper.	In Charge Signatur	re /	Date
12						51		Vi.			/		
				0.271								t)	2.00

Operational Daily Data Sheet

Date: 9 17 11 WEDNESDAT Day: Time & Initial Time & Initial Operation 5 4 Operation 5 4 T Check Plant Clean Organic Return m m Check Raw Sampler M Ran Skimmers / Hosed Down Recirculate Scum Sump Check Primary Tanks m Check Settle Sampler Recirculate Sludge Holding Tk. Check Sludge Pumps M Dumped Grit/Rag Pan Dump Pan in Screen Building # of Septic Haulers m Plant End Check LuBer REPORT OFF: **NEEDS:** Shift Readings: **CHAMPION G.M./LORDSTOWN** TREATED (in CP2) Sludge to Biosolids pumping Recirculate pump 890 9323.1 7010 rate 1st 008 1st 1st x1000 x1000 20 TOT. M.G.D. M.G.D. TEMPERATURE IN F PRECIPITATION Snow ice Pel. Hail Rain, Draw a straight line through hours precipitation was observed and a wavy line through hours At Obsn. Melt Snow current accum. Max. Min. precipitation probably occurred but was not observed. 560 .03 1 7 A.M. 10 11 12 WEATHER (Mark "X" for all type that occur during observed) Fog Ice Pell. Glaze Thunder Hail D. Wind RAIN P.M. 1 2 4 5 6 7 8 9 10 11 12 3 GASOLINE READINGS # Initials Raw pH Temp Removable in Cu, Yards **Main Pump Rotation Action** 2nd 9 4466 Inches #5 M 7.69 Noon Grit Screenings Shift #3 Mid #4 End TOT Primary Sludge Judge Reading: These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. Tk #1 2400 400 800 1200 1600 #2 2400 400 800 1200 1600 2000 38 36 Inches Initials #4 Tk #3 SANDELIKE Cothin 10 Inches Initials Tk #5 Inches Initials INFlueNT from Job Code: (P=Primary S=Secondary B= Primary/Secondary) **EMPLOYEE'S NAME & HOURS** JOB HOURS OT SICK VAC W/UP OUT Name 5 5 8 3 3 K 4

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Date: 9 / 8 ///_	T T	me & Initi	al		Day:				Time & Initia		
Start of Turn for Operation	5	3	4	During/I	nd of Tu	ırn Operati	on	5	3	4	
Check Plant	M	Ty	2	Clean Cla	2 Probes			M	TY		
Check Aeration Tks.	M	Th	. D	Drain Co	ndensat	e					
Check Sludge Draw off Flow	[7]	22	(2)	Clean Tu	bes @Fi	nal Clar. Tks					
Check Generator	m	74	7	Clean Op	erator L	ab & Meter		M			
Check Strainer	na	Ty	7	Plant En	d Check			M	Ty	0	
Fin. Clar. Sludge Judge Readin	g (dayturn)			Check Fi	nial Sam	pler		M	Ty	0	
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Mid-Shift 5 3	4									Tol. Prim. S	THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE THE RESERVE TO SERVE THE RESERVE THE RE
Final pH 7.40 7.54	7,63	WAS	Waste Rate	900-00000 000-00000	SVI		CONTROL	Polymer	Holding Tk.	2nd / 46	9330
Final D.O. 11,47 11,50	11.69	SS mg /I	gpm	30 min		MLSS	MLVSS		111	1st [0 6	1173
Final Temp 22 22°	220	2870	200	80	69.1	1158	660	575	7/		185
SHIFT 5 REMARKS (Events that are not p		tine or checke	ed off)	429 4	1496						
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Chief Oper./Superintent / Directo			•						n Charge Signatu		Date
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CILY OF BUGITCH BALL

Operational Daily Data Sheet

Date: 9 /8 / // Time & Initial THURSDAY Time & Initial Day: 5 4 Operation 5 4 Operation Clean Organic Return M Check Plant M \Box Ran Skimmers / Hosed Down Check Raw Sampler 6 1 Recirculate Scum Sump Check Primary Tanks IVI Py Recirculate Sludge Holding Tk. Check Settle Sampler 1 73 Check Sludge Pumps Dumped Grit/Rag Pan Ĵ. Dump Pan in Screen Building # of Septic Haulers M Plant End Check **NEEDS:** REPORT OFF: **Shift Readings:** Recirculate pump CHAMPION G.M./LORDSTOWN TREATED (in CP2) Sludge to Biosolids pumping 5336 2nd 870 1613151 rate 2nd 6055 1st 010 1st 611765 1st 0885 1386 x1000 TOT. x1000 M.G.D. M.G.D. **TEMPERATURE IN F PRECIPITATION** Snow ice Pel. Hail Rain. Draw a straight line through hours precipitation was observed and a wavy line through hours Max. Min. At Obsn. Melt Snow current accum. precipitation probably occurred but was not observed. 1 2 7 11 12 A.M. 6 10 WEATHER (Mark "X" for all type that occur during observed) Ice Pell. Glaze Thunder Hail D. Wind P.M. 1 2 4 5 6 7 8 9 10 11 12 3 RHIN GASOLINE READINGS # Initials Raw pH Temp Removable in Cu, Yards **Main Pump Rotation Action** 4530 Inches #5 7.65 Grit Screenings Shift Noon 5 1 7.76 #3 74 Mid 151 8 4466 End TOT. Primary Sludge Judge Reading: These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. Tk #1 2400 400 800 1200 1600 2000 #2 2400 400 800 1200 1600 2000 HQ H 38 Inches Initials #4 Tk #3 12 Inches M Initials Tk #5 Comments: Inches Initials **EMPLOYEE'S NAME & HOURS** Job Code: (P=Primary S=Secondary B= Primary/Secondary) JOB | HOURS | OT SICK VAC | W/UP | VISITOR(S) OUT Name mem B 5 5 3 3 4

Date: 9 9 11	T	ime & Initi	al		Day:	FriDAY			Time & Initia		
Start of Turn for Operation	5	3	4	During/I	end of Tu	ırn Operatio	on	5	3	4	
Check Plant	M	FL	Ble	Clean Cla	2 Probes			M	FL		
Check Aeration Tks.	M	FL	Bu	Drain Co	ndensati	e	4		#		
Check Sludge Draw off Flow	M	FL	Bu	Clean Tu	bes @Fi	nal Clar. Tks					
Check Generator	M	FC	Bu	Clean Op	erator L	ab & Meter		M			
Check Strainer	M	FL	BU	Plant En	d Check			M	FL	Bu	
Fin. Clar. Sludge Judge Readin	g (dayturn)			Check Fi	nial Sam	pler		M	FL	Bu	1
Tk1/6" Tk26" Tk3/2"	Tk4 4 3				×						2 Scale
Cl2 Resdual 5 3		De-Cl Res.	5	3	4	Boiler	Temp Psi	Temp Psi	Temp Psi	1st	1520
Start Shift 25 24	The state of the s	Start Shift	.05	,08	,07	Mid-Shift	00	6/0 3	600 2	2nd	1436
Mid-Shift 26 25	.22	Mid-Shift	-04	.06	108	End-Shift	6 0	610 3	610 2	used	24
Mid-Shift 5 3	4			<i>M</i>						Tol. Prim. S	kimming
Final pH 7.48 084	off	WAS	Waste Rate	SS	SVI	PROCESS	CONTROL	Polymer	Holding Tk.	2nd /8 6	9527
Final D.O. 11.36 11,40	11.52	SS mg /I	gpm	30 min		MLSS	MLVSS		117	1st /84	9330
Final Temp 22 Off	off	2900	200	70	.587	1192	680	575	42		197
SHIFT 5 REMARKS (Events that are not pa	art of daily rou	tine or checke	d off)	3783	92	101					
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weeking								411-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
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Chief Oper./Superintent / Directo	r Remarks:							Oper. Ir	Charge Signatur	e /	Date
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CILY OF WALLETT WALL

Operational Daily Data Sheet

			City Oi 1											
Date: 9 9	11	O	perationa	l Daily Da	ta Sh	eet								
Day: Fri		Fime & Init	ial								īma	& Init	ial	
Operation	5	3	4	Operation	\n		Г		1	5		Service of the country		
Check Plant	IN)	FZ		Clean Org	The published	Potura	1		-	7	**************************************	3 乙		1
Check Raw Sampler	M	FL	Bu	Ran Skim	-		Doug		M	-	I	_	BU	
Check Primary Tanks	in	FL	Bu	Recircula			-		-		├		 	
Check Settle Sampler	M	FL	Bil	Recircula					-	· Comme	├—		-	
Check Sludge Pumps	m	FL	Bu	Dumped			in ig i	ĸ.	-	1.	┼		-	
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REPORT OFF:				NEE			Transfer	·	/	N_		L	IBU	_
REPORT OFF:				Klei	US:			- 5-7-		2024_09/	20/1			
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Shift Readings:														
CHAMPION		RDSTOWN		ATED (in CP:	2)	Sludge to		-		nping		circul	ate pu	mp
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1st 4337890		151		1940	,		70	11			1st	43	127	,3
x1000		334	15	1825		x1000	-				TOT.			,9
M.G.D.						M.G.D.			L	Marine San				<u>' </u>
TEMPERATURE IN	F P	RECIPITATI	ON Pel. Hail									ALLEY W		
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Fog Ice Pell. Glaze Th	under Hail	D. Wind		P.M. 1	2	3 4	5	6	7	8	9	10	11	12
X														
GASOLINE READINGS	# Initials	Raw pH	Temp	Remov	able i	n Cu, Yar	ds	N	/lain	Pump	Rot	ation	Actio	n
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18 84530	7 #3 FL	7.69	20					Mid	L	1			1	
тот. 55 о	8 #4 BU	17.64						End	4	f_{\perp}	1	D		
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EMPLOYEE'S NAME & I	HOLIBS	Joh Coder	P=Primary	S=Soco=====	nı D-	Delma /		da - 1						
Nan	The Contract of the Contract o	JOB Code:	HOURS						OR(S))		N	OL	T
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Date: <u>'l' / /0 / //</u>		ime & Initi	al		Day:					ime & Initia		
tart of Turn for Operation	5	3	4	During/I	End of T	urn Operation	on		5	3	4	1
Check Plant	M	R-	D	Clean Cl	2 Probes	5			M	FL		
Check Aeration Tks.	M	FL	0	Drain Co	ndensat	te				FL		
Check Sludge Draw off Flow	M	FC:	1	Clean Tu	bes @Fi	inal Clar. Tks						
Check Generator	M	FL			-	Lab & Meter			M			
Check Strainer	pr	FL:	T)	Plant En					m	FL		2
Fin. Clar. Sludge Judge Readin	g (dayturn)			Check Fi	nial Sam	pler			oft	FL	I	>
Tk1/0" Tk2/0" Tk3/2"	Tk4 8"				7							Cl2 Scale
IZ Resdual 5 3	4	De-Cl Res.	5	3	4	Boiler	Temp F	si T	emp Psi	Temp Psi		1st 1436
Start Shift 94 28	023	Start Shift	.05	,06	.07	Mid-Shift	0 8	06	30 3	10°0		2nd 1360
Mid-Shift 20 1/8	,27	Mid-Shift	.06	.07	:09	End-Shift	0 0	> 6	303	0 6%		used 76
Mid-Shift 5 3	4										Tol. P	rim. Skimming
Final pH	(American)	WAS	Waste Rate	SS	SVI	PROCESS	CONTRO	L	Polymer	Holding Tk.	2nd	1869820
Final D.O. 1133 11,29	11.23	SS mg /l	gpm	30 min		MLSS -	MLVS	S			1st	1869527
inal Temp 22 22°	270										1	293
SHIFT 5 REMARKS (Events that are not pa	ort of daily rou	Some Sound Francisco	W 184					-	AND DESCRIPTION OF THE PARTY OF			010
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Prim RAN ON MANUS SHIFT 3 REMARKS (Events that are not pa 47 / 1 & 51 / 0 QUITING MY IN MAIN PRIMARY POLITICE SHIFT 4 REMARKS (Events that are not pa 57 / 0 DOE to All the	art of daily rou The state of daily rou	tine or checked the source of	d off) d off) d off)	would a foot	not high	beep it sludge Ait:	scree	en ,	Oper. In	Macim Charge Signatur y lo V Ho onl Jawka Charge Signatur	n vla e	Date 9
Prim RAN ON MANUS SHIFT 3 REMARKS (Events that are not pa 17 / 1 & 51 / 10 QUITING MY IN IF IN PRIMARY IN INMES SHIFT 4 REMARKS (Events that are not pa 57 / 0 DOE to All the	art of daily rou Mid-Shib H The state of daily rou R Af	tine or checke tualk fur 30 tine or checke	doff) doff) doff) doff)	would a foot	not high	locep iv sludge Aik. S VA/VE	- Screen	en	Oper. In Oper. In Oper. In	Macina Charge Signatur y low Ho wh hawley Charge Signatur	ika: e By-	Date 9 1 10 1 11 Date the metal grate
SHIFT 3 REMARKS (Events that are not pa 47°/10 \$ 51°/10 QUYING MY 10 IF QIN PI, MAIN IN INME SHIFT 4 REMARKS (Events that are not pa 51°/0 DOE to All the AACL to bleach I	art of daily rou Mid-Shib HT art of daily rou Rain AF	tine or checke tine or checke tine or checke tine or checke	doff) doff) doff) doff) Acres	would Ic of	not high Rai	locep in sludge Aik: S VA/VE Ked SCI Alled	- Screen to	en ,	Oper. In Oper. In Oper. In	Meim Charge Signatur y low Ho who have Charge Signatur times they w	In Record	Date 9
SHIFT 3 REMARKS (Events that are not pa 47°/1 & 51°/0 QU'TING MY IN IFGIN PINMAIN IN INMIX SHIFT 4 REMARKS (Events that are not pa 57°/0 DOE to All the	art of daily rou The faily rou	tine or checke tine or checke tine or checke CANA thy the	doff) doff) doff) doff)	would Ic of	not high Rai	locep iv sludge Aik. S VA/VE	- Screen to	en ,	Oper. In Oper. In Oper. In Mins Action At	Meim Charge Signatur y low Ho who have Charge Signatur times they w)n e BY- r/// ge	Date 9 1 10 1 11 Date the new 1 grate

Operational Daily Data Sheet

Date: 9 10 11 Day: SAturday Time & Initial Time & Initial 4 5 Operation 5 3 Operation 4 FL Clean Organic Return m Check Plant M Ran Skimmers / Hosed Down Check Raw Sampler CES FL Recirculate Scum Sump **Check Primary Tanks** M FL Recirculate Sludge Holding Tk. Check Settle Sampler 044 FL Dumped Grit/Rag Pan m Check Sludge Pumps **Dump Pan in Screen Building** # of Septic Haulers M Plant End Check W **NEEDS:** REPORT OFF: **Shift Readings:** Sludge to Biosolids G.M./LORDSTOWN Recirculate pump **CHAMPION** TREATED (in CP2) pumping 531165 2nd 87011 377580 33 rate 7011 1st 1st 1st 25.815 x1000 TOT. x1000 M.G.D. M.G.D. **TEMPERATURE IN F** PRECIPITATION Snow ice Pel. Hail (Ráin, Draw a straight line through hours precipitation was observed and a wavy line through hours Melt Snow Min. Max. At Obsn. current accum. precipitation probably occurred but was not observed. 64 15 136 A.M. 2 5 6 10 11 12 WEATHER (Mark "X" for all type that occur during observed) Fog Ice Pell. Glaze Thunder Hail D. Wind P.M. 1 2 3 4 5 6 8 10 11 12 RAIN # Initials Raw pH Temp Removable in Cu, Yards Main Pump Rotation Action **GASOLINE READINGS** 2nd 8460 Inches #5 W 7.71 Noon Grit Screenings Shift 200 Mid End TOT. Primary Sludge Judge Reading: These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. 2000 2400 400 800 1200 2000 1200 1600 #2 1600 Tk #1 2400 400 800 40 38 Inches Initials #4 Tk #3 20 20 16 Inches M M Initials Tk #5 Comments: Inches Initials **FMPLOYEE'S NAME & HOURS** Job Code: (P=Primary S=Secondary B= Primary/Secondary) JOB | HOURS | OT SICK VAC | W/UP OUT VISITOR(S) Name B mem 5 5 B 3 3 Dewey 2 15 4 4

Date: 9 / 11 / 11	R 2 3 1 E 3	ime & Initi	al	I	Day:	Sund	ay			Time &	Initial			
Start of Turn for Operation	5	3	4	During/E		rn Operatio	THE RESERVE THE PERSON NAMED IN COLUMN		5	3		4		
Check Plant	73	FL	Dr	Clean Cl2	Probes		The state of the s			F				
Check Aeration Tks.	Ty	FL	10-	Drain Co	ndensati	е				FL	_			
Check Sludge Draw off Flow	TY	FL		Clean Tu	bes @Fi	nal Clar. Tks.								
Check Generator	Ty	FL	Di	Clean Op	erator L	ab & Meter			1					
Check Strainer	TY	FL	17	Plant End	THE RESERVE TO THE PARTY OF THE			TY		FC		3		
Fin. Clar. Sludge Judge Readir	CONTRACTOR OF THE PARTY OF THE			Check Fir	nial Sam	pler		Ty	· ·	FC		Ov		
Tk1 8" Tk2/0" Tk3/0"	TK4 /2"						¥			7.			Cl2	Scale
Cl2 Resdual 5 3	4	De-Cl Res.	5	3	4	Boiler	The same of the sa	i Temp	Psi	Temp	Psi	1	st /	360
Start Shift 21 16	19	Start Shift	,06	,05	108	Mid-Shift	00	620	3	60	0	2	nd /	288
Mid-Shift 0/9 /4	123	Mid-Shift	.02	.04	105	End-Shift	0 0	620	3	601	0	No. of the last of	sed	72
Mid-Shift 5 3	4									E .		Tol. Pri	m. Ski	mming -
Final pH	7.50	WAS	Waste Rate	SS	SVI	PROCESS	CONTROL	Poly	mer	· Holdir	ng Tk.	2nd /	87	0068
Final D.O. 1135 1138	1153	SS mg/l	gpm	30 min	(9)	MLSS	MLVSS					1st	869	820
Final Temp 21° 21°	20								Carlott Ma				Ġ	248
SHIFT 5 REMARKS (Events that are not p				56%	-579		ewer co		Ken	more:	S.E. C	called c	outa	- CREW
Cleaned + Closed M	anual !	Bar Sci	ecen (1pump	ANd	Reduced	Rage	(low)						
Mand Kim L. B. Dac	for a	12 185	T 1160	CON 10	Mala									do W.
Raised Polymer to	2650	zed, ma	de an	s air e	20115	tmant (TiN Sh	dge 5	ubria	Jane /	jusa.	5 4 8 97	all s	MURKY
Clarifier # butto	iv, Sec.	ordary	button	#94	vould .	Not King	ON 314	ישטור,	10	7	Cly		<u> </u>	
SHIFT 3 REMARKS (Events that are not p	art of daily rou	itine or checke	d off)						Oper.	n Charge	Signatur	е		Date
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starting to see		lates a	reade 1	n the	arcran	on 1911C	100 h	PHO			1	c por	mc ,	11 114
inner circle of d	9111166	tania c	gs well	au the	grego	e sump b	ucie by	The C	10.1	7/6/3	. /			
									LA	muh	Ginh	Max c	1]]	
SHIFT 4 REMARKS (Events that are not p	art of daily rou	itine or checke	d off)						Oper. I	n Charge	Signatur	e		Date
calling At 8:05	notice	that	main Du	IMPS W	AS NO	+ ADA	CAlled	welke	thei	\ 4#	UND	Came	BAC	KON
tola me in	Pit aro	es back	011/1	All Som	Ehody	out. PK	nt we	15 a7	1/20	millio	nla	t the	fime	7
KEEDEYEON	-the	MAIL	DUMID	Stati	onsi				(F/0	لعاد				
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	MANUSE 17.	· · · · · · · · · · · · · · · · · · ·						()!!	VICT.	000	71-1	<u> </u>
Chief Oper./Superintent / Directo	r Remarks:								Oper.	In Charge	Signatur	e //		Daté
											-	/		
	1	Water .												

Operational Daily Data Sheet

Date: 9 / 11 / 11 Sunday Day: Time & Initial Time & Initial Operation 5 3 4 Operation 5 3 4 1 Clean Organic Return Check Plant Th TY Ran Skimmers / Hosed Down Check Raw Sampler Recirculate Scum Sump **Check Primary Tanks** Recirculate Sludge Holding Tk. FL Check Settle Sampler TH FL Dumped Grit/Rag Pan **Check Sludge Pumps** TY Dump Pan in Screen Building # of Septic Haulers Plant End Check **NEEDS:** REPORT OFF: **Shift Readings:** CHAMPION G.M./LORDSTOWN TREATED (in CP2) Sludge to Biosolids pumping Recirculate pump 87011 328,2 237890 2nd rate 2nd 1st 1st 1st x1000 x1000 TOT. M.G.D M.G.D. TEMPERATURE IN F PRECIPITATION (Rain, Snow ice Pel. Hail Draw a straight line through hours precipitation was observed and a wavy line through hours Max. Min. At Obsn. Melt Snow current accum. precipitation probably occurred but was not observed. 57 58 128 A.M. 1 2 3 4 5 6 7 8 10 11 12 WEATHER (Mark "X" for all type that occur during observed) 11 Hail D. Wind 1 2 5 6 10 Fog Ice Pell. Glaze Thunder P.M. 3 4 7 8 9 12 Temp # Initials Raw pH Removable in Cu, Yards Main Pump Rotation Action **GASOLINE READINGS** Grit Screenings #5 73 Noon Shift 4 2nd Inches 200 #3 Mid 1st 84607 TOT. End **Primary Sludge Judge Reading:** These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. 1600 2400 400 2000 #2 800 1200 2000 Tk #1 400 800 1200 1600 Inches Initials Tk #3 #4 Inches Initials Tk #5 Comments: Inches Initials Job Code: (P=Primary S=Secondary B= Primary/Secondary) **EMPLOYEE'S NAME & HOURS** JOB HOURS OT SICK VAC W/UP VISITOR(S) OUT Name 5 3 3 4 4

2 12 11							_	11		Much	~ P		
Date: 9/12/11	E T	ime & Initi	ial		Day:	Mond		N I		Time & Initia	the state of the s	1	
Start of Turn for Operation	5	3	4	During/	End of Tu	rn Operati	ion		5	3	4		
Check Plant	TY	FL.		Clean Cl	2 Probes	West Telling 81		3	· ·	FL			
Check Aeration Tks.	Ty	FL.	1	Drain Co	ndensate	2	λ.			FL			
Check Sludge Draw off Flow	Ty	FL	D	Clean Tu	bes @Fir	nal Clar. Tk	s.	7				1	
Check Generator	14	FL.	D	Clean O	perator L	ab & Mete	r ,			1.5		1	× .
Check Strainer	Ty	FL		Plant En	d Check				TY	FL	1		
Fin. Clar. Sludge Judge Readin	g (dayturn)			Check Fi	nial Samp	oler .			Th	FL			00
Tk1 /0" Tk2 2" Tk3 /2"	Tk4/2"		*:			,					C	I2 Scale	
Cl2 Resdual 5 3	4	De-Cl Res.	5	3	4	Boile	r Temp	Psi 1	Temp Psi	Temp Psi	1st	1288	1
Start Shift •15 ,22	. 19	Start Shift	004	,09	.03	Mid-Shif	t O	0	52° 3	620	2nd	1216]
Mid-Shift 0/9 //8	017	Mid-Shift	305	.03	.06	End-Shif	t 0	0	620 3	100	used	72	1
Mid-Shift 5 3	4				-						Tol. Prim.	Skimming "	i
Final pH 7.56 7.69	7.62	WAS	Waste Rate	SS	SVI	PROCESS	CONTR	OL	Polymer	Holding Tk.	2nd / 8	370411	
Final D.O. 11,38 11.41	11033	SS mg/l	gpm	30 min		MLSS	MLV	SS	V same	10	1st /87	10068	1
Final Temp 210 210	210	2430	200	90	795	1/32	70	6	550	68		343	
SHIFT 5 REMARKS (Events that are not page	art of daily rou	itine or checke	d off)	649/01	66%				· ·			7	
Ran # 1 primary Studge po	MADDON	ancalo.	Checke		ine Ro	ate, Fl	ow wa	5 90	od, slu	idae wa	s very b	MARKA	doro
		ary 5%	udce,	Not a	good	mix.	Raise	de	oly mei	r towar			
made an air a		nenta				UNING			Annahitation of Personal Property and Publishers	ge well	/		1
TRYING to Thicken	stre.	Sjudge.	Misse	of Las	T Prin	nary B	rotton	#10	The same of the sa	n fluge		12/11	=
SHIFT 3 REMARKS (Events that are not pa	art of daily rou	itine or checke	d off)						Oper. Ir	n Charge Signatur	re	Date	5
66%				land		AAF	1-11						-
Ran skimmer		rude ai			next on	DAF	tank						-
main pump did no	& Kilk	over	to #	7 toda	ay,				. ,				-
				-	William To The				- Spr	and Telm	last 91	12/1]
SHIFT 4 REMARKS (Events that are not pa	art of daily rou	tine or checke	d off)		10 A 12	10 A 10	CONTRACTOR OF		Oper, Ir	n Charge Signatur	re	Date	=
10:40 72%					DISELEMENT OF THE PARTY OF THE				IS CO.			BOALS HIS TO STORE	1
	1 tin	ne - R	Par DI	tram.	tANK	on N	LANUA	1.40	Water De	Þ			
	_			1									
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Chief Oper./Superintent / Directo	r Remarks:									n Charge Signatur		Date	
									,		The state of the s		
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					-			***************************************		****			37

11 9-12-11

Operational Daily Data Sheet

LOB SHEET WAS SOAKED WITH WATER

Day:		¥		Τι	me & Initi	al									T	ime (& Initi	al	Shall
Opera	≠ ition i	4		5	3	4	Ope	ratio	1	П	T			o V RI	5	DOMESTI	3	SIE LIGHT	1
Check				TY	FL	D	-		-	Return	1			Ty			2	T	5
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	Primary	-		Ter	FL	D				m Sur							_		7
	Settle Sa			Tig	FL					dge H		ng Tl	ζ.	TY	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	Sludge P			The	FL	0	_		_	ag Pa				.,	1	F	1		
	ptic Hau						1			reen		ding		The		F	Ź	7)
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REPOR	T OFF:	BO	b Do	Inch o				NEE	os:	K	Jer	9C	<i></i>						
Shift F	Reading	s:			S. H. Wall	10 H 21	N BAR		100		N F		38671		18/2	1 1/2	0.000	100	
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	MPER/	ATURE	NF	PR	ECIPITATI		NSV 1	AAR	MORE				White the same		0815	1887	5000	100	Miles
			20-20-2	(Rain,	Snow ice	ALICE AND ADDRESS OF THE PARTY	Drav	w a straï	ght line	through	h hour:	s pred	ipitation	n was o	bserved	and a w	avy line	through I	hours
Max.	Min.		bsn.	Melt Snow	current	accum.				orecipita	tion p	robat	ly occur	red but	was no	obser	ved.	1	
74	56	5		,03		III KAN II SA II W	A.M.	1	2	3	4	5	6	7	8	9	10	11	12
	EATHE			I type that oc		served)													
Fog	Ice Pell.	Glaze	Thunder	Hail	D. Wind		P.M.	1	2	3	4	5	6	7	8	9	10	11	12
6	SASOLINE	READIN	GS	# Initials	Raw pH	Temp	Re	mova	ble i	n Cu,	Yard	ls	N	/lain	Pum	Rot	ation	Actic	on ,
2nd	84	607	Inches	#5 73	7.59	Noon		Grit		Scre	enir	ngs	Shift		5		3	4	4
1st	846	07	272	#3 FL	7.71	200		0					Mid	1	1		<u> </u>	9	1
тот.	9	h	518	#4	1.13		1	d		E Alad Co	he . 1	.;	End	4	4	L		4/	white and
			e Read	200									i dinii	(Times		the state of			
				operations of			Name and Address of the Owner, where the Owner, which is the Own	-		-		_		_		T-		_	
Tk #1	2400	400	800	1200	1600	2000	#2	24	00	40	U	8	00	1.	200	10	500	20	000
Inches	76	481	48°	48" FL	48	1/0 D	-			-		-	-	-		-			
Initials Tk #3	73.	Ty	10	FL	$ \mathcal{M} $	1	#4	-				_							
	14"	16"	24"	JUN	28"	26	#4	24	200	172	711	2	115	1	ON	10	1/11	10	d
Inches	111	1.4	FL	27	20	×0	-	04	ie	027	7	F	7	E	0	6	7	2	7
Tk #5		78		116			1	Comm	- nontri	1/9	9					1			
Inches			T			r	1	Comm	iens.		-	1 - 2 - 10			-				
Initials	-	-					1			_									
Illingiz						(0.0.)	5.6	- 7		D	Ic	-	1 - 1					i	
CRADI		NABAF	2 UOU	DC	Jah C-J-		2=26(conga	A PE	rrima	IV/S	ecor	idaryl						
EMPL			& HOU	RS	Job Code:			SICK							S)		N	0	UT
			& HOU ame	RS	JOB	HOURS		SICK						OR(S)		IN	0	UT
EMPL 5				RS		HOURS		SICK							S)		IN .	01	UT
5	OYEE'S	Yang	ame	RS	B	HOURS		SICK							S)		IN	01	UT
5		Yang		RS	JOB	HOURS		SICK							S)		IN .	,	UT
5 5 3	OYEE'S	yang omb	ame		B	HOURS		SICK							s)		in .		UT

Date: 9/13/11	T	ime & Initi	al		Day:	Tueso	lay		Time & Initia		
Start of Turn for Operation	5	3	4	During/E	nd of T	urn Operati	on	5	3	4	
Check Plant	74	BU	FL	Clean Cl2	Probes		Street Bridge Street	ž	Bu		
Check Aeration Tks.	Th	BU	FU	Drain Co	ndensat	е					
Check Sludge Draw off Flow	-74	BU	FL	Clean Tu	bes @Fi	nal Clar. Tks					
Check Generator	分	BU	FL	Clean Op	erator l	ab & Meter	· · · · · · · · · · · · · · · · · · ·		2300		
Check Strainer	-14	BU	FL	Plant End	d Check			Ty	BUL	FL	
Fin. Clar. Sludge Judge Readin	g (dayturn)			Check Fi	nial Sam	pler		Ty	BU	FL	
Tk1 8" Tk10" Tk3/0"	Tk48"								12.00		2 Scale
Cl2 Resdual 5 3	4	De-Cl Res.		3	4	Boile	Temp Psi	Temp Psi	Temp Psi	1st	1216
Start Shift .20 .21	,19	Start Shift	.04	.65	.06	Mid-Shif	00	6/00	648 3	2nd	1199
Mid-Shift #18 -27	.19	Mid-Shift	,02	.06	.10	End-Shif	00	1000		used	12
Mid-Shift 5 3	4									Tol. Prim.	HARMOND TO COLUMN TO THE PARTY OF
Final pH 7,55 7,41	7.59	WAS	Waste Rate	SS	SVI	PROCESS	CONTROL	Polymer	Holding Tk.	1 1 1 1 1	70 732
Final D.O. 12.25 11.89	12.27	SS mg /l	gpm	30 min		MLSS	MLVSS	1015	200	1st /8	10911 151
Final Temp 21° 21°	220	2400	200	90	81.4	1106	644	570	28		321 To
SHIFT 5 REMARKS (Events that are not pa				74%-	18%	HIT MISC	Buttow Z	Times DAd	justed Air	2 for DAF-	· Checked Has Claris
Subvatant End of Di	4F 5/0	dge fa	HING in	ito Sub	matan	T well,	hosed on	Sludge	· Made	5'everal	CLOYUSTINE UTBUTTO
to HZO TANK. 20	- 70 -	300 6	called	M. W	elke		IG TANK	@ 7496	, Thomas	to see	about
Caualizing to Gravit	a Thic	Kener.	NOTYE	+ but	CONTIN	ive to m	16NIFOR	21	7 V 40 40	91	13/11
TANK#1 Floating Slud				Severed	30 m	N MIGNOS	Je=55 7010	Oper.	n Charge Signatur	re	Date
Superspated ne				NIA	n 1	kimm	ren a	not he	sed Co	Veirs	
	ns II		Mas	rual	tur	ice 30	min	sesse	ms C	Coatri	3 sludge)
Dunked Kat Fan	1								. 0	0	+ 0
1					×			A	ent Ille	my 91	13/11
SHIFT 4 REMARKS (Events that are not pa	art of daily ro	utine or check	ed off)					Oper.	n Charge Signatu	re /	Date
19 - 200 - 30			4-1		STATE OF						
D.O. meler is re	wing.	over.	"12"	scee	ina c	rome a	reuse pa	Hier in	claritien		41
adjusted air prou	es flo	W 23	2-69-70	D. 5/00	age thi	ckened /	about	9:45 pr	n polanti	reached hi	gh flow
spened ocreen build	ling ga	te			,		**************************************	iph	rain how	lush 91	<u> 13]]]</u>
Chief Oper./Superintent / Directo	or Remarks):					- 10	Oper.	n Charge Signatu	re	Date
					np		- trades in the				
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CILY OF WWALLELL WALL

Operational Daily Data Sheet

Date: 9 /13 / 11 vesday Day: Time & Initial Time & Initial Operation Operation 5 4 5 4 FL FZ Check Plant BIL Clean Organic Return BIN 74 79. Check Raw Sampler BUL FL Ran Skimmers / Hosed Down TY Recirculate Scum Sump BUL FL **Check Primary Tanks** Th TY Recirculate Sludge Holding Tk. Check Settle Sampler BU Tr Dumped Grit/Rag Pan BU Check Sludge Pumps TY BU FL Dump Pan in Screen Building # of Septic Haulers Ty Plant End Check Ty BU Jim Valentine **NEEDS:** REPORT OFF: **Shift Readings:** CHAMPION G.M./LORDSTOWN TREATED (in CP2) Sludge to Biosolids pumping Recirculate pump 87014 rate 2nd 1st 1st 1st x1000 TOT. x1000 M.G.D. M.G.D. 3000 **TEMPERATURE IN F PRECIPITATION** Snow ice Pel. Hail Rain. Draw a straight line through hours precipitation was observed and a wavy line through hours Min. At Obsn. **Melt Snow** Max. current accum. precipitation probably occurred but was not observed. 65 1 A.M. 4 5 10 11 79 56 12 0 WEATHER (Mark "X" for all type that occur during observed) Fog Ice Pell. Glaze Thunder Hail D. Wind P.M. 1 2 3 4 5 6 7 8 9 10 11 12 GASOLINE READINGS # Initials Raw pH Temp Removable in Cu, Yards Main Pump Rotation Action 84640 Inches #5 TY Grit Screenings Shift Noon 5 #3 /3/1 Mid 1st End TOT. Primary Sludge Judge Reading: These readings are to ensure proper operations of these tanks. Adjustments of pumping time are to be made to manintain the sludge between 6 to 12 inches. Tk #1 2400 400 800 1200 1600 2000 #2 2400 400 800 1200 1600 2000 Inches Initials Tk #3 #4 Inches Initials Tk #5 Comments: Inches Initials **EMPLOYEE'S NAME & HOURS** Job Code: (P=Primary S=Secondary B= Primary/Secondary) HOURS OT SICK VAC W/UP VISITOR(S) Name OUT 5 8 60 3 8 3

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ombaran

Date: 9 14 11 Time & Initial Day: Wed Newford Start of Turn for Operation 5 3 4 During End of Turn Operation 5 3 4 During End of Turn Operation 5 3 4 Check Plant The M FL Clean Cl2 Probles Check Plant The M FL Clean Cl2 Probles Check Studge Draw off Flow 75 M FL Clean Cl2 Probles Check Generator 77 M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter The M FL Clean Operator Lab & Meter Check Strainer The M FL Clean Operator Lab & Meter The M FL Clean Strainer The M FL Clean Operator Lab & Meter The M FL The M FL Clean Operator Lab & Meter The M FL The M F				Ī	NPC Sec	condar	y Report						
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Operational Daily Data Sheet

- 9 , 14 , 11		Ор	erational	Dail	y Dai	ta Sh	eet									
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72 56 60	-C) /			A.M.	1	2	3	4	5	6	7	8	9	10	11	12
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State of Ohio Environmental Protection Agency

Sanitary Sewer Overflow 5-Day Follow Up Report

Ohio EPA Form 4237 Issued 08/04

	Report Submitted by:
Date	04/28/11
Facility Name	610 Tod NW
Ohio NPDES Permit No.	3PE0008*KD
Period Covered by Report	04/28/2011
Contact Person Name	Greg Lubert
Contact PersonTitle	Sewer Systems Superintendent
Mailing Address	2323 Main Ave SW
City, State, Zip	Warren, Ohio 44481
County	Trumbull
Telephone No.	330-841-2591 Ext 111
E-mail Address	glubert@warren.org

Signature required at end of form

	15.92
	Overflow Information
Event start date and time – if multiple locations, include information for each	04/28/2011 1300 hrs
Event end date and time	04/28/2011 1315 hrs
Location(s) the SSO – include unique ID number if one exists	1001-78-0221
Destination(s) of overflow	☐ Basement or building ☐ Ground ☐ Storm sewer to receiving water ☐ Directly to receiving water
Specific receiving water(s) (if applicable)	Mahoning River
Estimated volume (million gallons) – if multiple locations, include volume for each	.0001 mgd addressed the situation immediately
Sewer system component(s) from which release occurred	
Cause(s) of overflow	☐ Extreme weather ☐ Equipment failure ☐ Power failure ☐ Debris in line ☐ Roots ☐ Grease ☐ Other blockages ☐ Line deterioration ☐ Vandalism ☐ Other (explain)
x	9

eliminate and/or reduce the overflow – include schedule of major milestones	Removed the blockage by flushing the sanitary sewer line.
Steps taken or planned to prevent reoccurrence of the overflow(s) – include schedule of major milestones	Step up the flushing cycles of this sanitary sewer line.
s	
Steps taken or planned to mitigate the impact(s) of the overflow(s) – include schedule of major milestones	
V	
Additional information (attach additional pages, maps, etc. as needed)	
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I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION IN THIS REPORT AND ALL ATTACHMENTS. I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Signature

Date

Title

EPA 4237 (08/04)

Page 2 of 2



State of Ohio Environmental Protection Agency

Sanitary Sewer Overflow 5-Day Follow Up Report

Ohio EPA Form 4237 Issued 08/04

Report Submitted by:	
Date	04/08/11
Facility Name	City of Warren, Ohio Water Pollution Control
Ohio NPDES Permit No.	3PE0008*KD
Period Covered by Report	04/04/2011
Contact Person Name	Greg Lubert
Contact PersonTitle	Sewer Systems Superintendent
Mailing Address	2323 Main Ave SW
City, State, Zip	Warren, Ohio 44481
County	Trumbull
Telephone No.	330-841-2591 Ext 111
E-mail Address	glubert@warren.org

Signature required at end of form

Pro- Company of the C		
Overflow Information		
Event start date and time – if multiple locations, include information for each	04/04/11 1630 hrs	
Event end date and time	04/04/11 2030 hrs	
Location(s) the SSO – include unique ID number if one exists	3PE00008020	
Destination(s) of overflow	☐ Basement or building ☐ Ground ☐ Storm sewer to receiving water	
:01	☐ Directly to receiving water	
Specific receiving water(s) (if applicable)	Mahoning River	
Estimated volume (million gallons) – if multiple locations, include volume for each	.363 MG	
Sewer system component(s) from which release occurred	☐ Manhole ☑ Constructed overflow ☐ Pipe crack ☐ Pump station ☐ Other (explain)	
Cause(s) of overflow	⊠ Extreme weather	

Steps taken or planned to eliminate and/or reduce the overflow – include schedule of major milestones	2006 - Commercial roof drain testing in the downtown area. The flow metering of the sanitary sewer system in the downtown area and areas to north of the downtown area. 2007 - Ongoing I & I Study (North End) dye testing of downspouts on homes & businesses North Park, Belmont NW, Atlantic NW, Forest NW. Dye testing of storm sewers of the streets listed above.	
Steps taken or planned to prevent reoccurrence of the overflow(s) – include schedule of major milestones	Spring of 2008 certifed letters will be sent out this spring to homeowners regarding downspout violations. 2011 - Hiring an engineering firm to review our findings	
Steps taken or planned to mitigate the impact(s) of the overflow(s) – include schedule of major milestones		
Additional information (attach additional pages, maps, etc. as needed)		

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION IN THIS REPORT AND ALL ATTACHMENTS. I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Signature

Date

Title

EPA 4237 (08/04)

Page 2 of 2



State of Ohio Environmental Protection Agency

Sanitary Sewer Overflow 5-Day Follow Up Report

Ohio EPA Form 4237 Issued 08/04

Report Submitted by:		
Date	05/04/11	200
Facility Name	City of Warren, Ohio Water Pollution Control	
Ohio NPDES Permit No.	3PE0008*KD	
Period Covered by Report	05/03/2011	
Contact Person Name	Greg Lubert	
Contact PersonTitle	Sewer Systems Superintendent	
Mailing Address	2323 Main Ave SW	
City, State, Zip	Warren, Ohio 44481	- 5
County	Trumbull	A 95.50
Telephone No.	330-841-2591 Ext 111	
E-mail Address	glubert@warren.org	

Signature required at end of form

5006 860 I		
Overflow Information		
Event start date and time – if multiple locations, include information for each	05/03/11 1000 hrs	
Event end date and time	05/03/11 1500 hrs	
Location(s) the SSO – include unique ID number if one exists	3PE00008020 1105-78-1516	
Destination(s) of overflow	☐ Basement or building ☐ Ground ☐ Storm sewer to receiving water ☐ Directly to receiving water	
Specific receiving water(s) (if applicable)	Mahoning River	
Estimated volume (million gallons) – if multiple locations, include volume for each	.205 MG	
Sewer system component(s) from which release occurred	☐ Manhole ☑ Constructed overflow ☐ Pipe crack ☐ Pump station ☐ Other (explain)	
Cause(s) of overflow	Extreme weather	

eliminate and/or reduce the overflow – include schedule of major milestones	2006 - Commercial roof drain testing in the downtown area. The flow metering of the sanitary sewer system in the downtown area and areas to north of the downtown area. 2007 - Ongoing I & I Study (North End) dye testing of downspouts on homes & businesses North Park, Belmont NW, Atlantic NW, Forest NW. Dye testing of storm sewers of the streets listed above.
.46 o	
Steps taken or planned to prevent reoccurrence of the overflow(s) – include schedule of major milestones	Spring of 2008 certifed letters will be sent out this spring to homeowners regarding downspout violations. 2011 - Hiring an engineering firm to review our findings
a .	
Steps taken or planned to mitigate the impact(s) of the overflow(s) – include schedule of major milestones	
**	
Additional information (attach additional pages, maps, etc. as needed)	
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I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION IN THIS REPORT AND ALL ATTACHMENTS. I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Signature

Sewer Systems Superintendent Title

EPA 4237 (08/04)

Page 2 of 2



State of Ohio Environmental Protection Agency

Sanitary Sewer Overflow 5-Day Follow Up Report

Ohio EPA Form 4237 Issued 08/04

	Report Submitted by:
Date	06/03/11
Facility Name	City of Warren, Warren Water Pollution Control Center
Ohio NPDES Permit No.	3PE0008*KD
Period Covered by Report	5/12/2011
Contact Person Name	Greg Lubert
Contact PersonTitle	Sewer Systems Superintendent
Mailing Address	2323 Main Ave SW
City, State, Zip	Warren, Ohio 44481
County	Trumbull
Telephone No.	330-841-2591 Ext 111
E-mail Address	glubert@warren.org

Signature required at end of form

	Overflow Information
Fort start data and Mark	
Event start date and time – if multiple locations, include information for each	5/12/11 1730 hrs
Event end date and time	5/12/11 2200 hrs
Location(s) the SSO – include unique ID number if one exists	3PE00008020
Destination(s) of overflow	☐ Basement or building ☐ Ground ☐ Storm sewer to receiving water
	Directly to receiving water
Specific receiving water(s) (if applicable)	Mahoning River
Estimated volume (million gallons) – if multiple locations, include volume for each	.408 MG
Sewer system component(s) from which release occurred	☐ Manhole ☑ Constructed overflow ☐ Pipe crack ☐ Pump station ☐ Other (explain)
Cause(s) of overflow	X Extreme weather ☐ Equipment failure ☐ Power failure ☐ Debris in line ☐ Roots ☐ Grease ☐ Other blockages ☐ Line deterioration ☐ Vandalism ☐ Other (explain)

Steps taken or planned to eliminate and/or reduce the overflow – include schedule of major milestones	In the process	of obtaining	an engineerin	g firm to	address the	e probler	n.	
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Steps taken or planned to prevent reoccurrence of the overflow(s) – include schedule of major milestones	7							
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Steps taken or planned to mitigate the impact(s) of the overflow(s) – include schedule of major milestones							50 50 20 20	0
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Additional information (attach additional pages, maps, etc. as needed)	= 14 X g							
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I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION IN THIS REPORT AND ALL ATTACHMENTS. I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Signature

Date

Title

EPA 4237 (08/04)

Page 2 of 2



State of Ohio Environmental Protection Agency

Sanitary Sewer Overflow 5-Day Follow Up Report

Ohio EPA Form 4237 Issued 08/04

	Report Submitted by:	
Date	06/03/11	(100)
Facility Name	City of Warren, Warren Water Pollution Control Center	
Ohio NPDES Permit No.	3PE0008*KD	
Period Covered by Report	5/27/2011	2
Contact Person Name	Greg Lubert	
Contact PersonTitle	Sewer Systems Superintendent	W
Mailing Address	2323 Main Ave SW	ž
City, State, Zip	Warren, Ohio 44481	vi ::
County	Trumbull	
Telephone No.	330-841-2591 Ext 111	
E-mail Address	glubert@warren.org	
Signature required at end	of form	

	Overflow Information
Event start date and time – if multiple locations, include information for each	5/27/11 2030 hrs
Event end date and time	5/28/11 030 hrs
Location(s) the SSO – include unique ID number if one exists	3PE00008020
Destination(s) of overflow	☐ Basement or building ☐ Ground ☐ Storm sewer to receiving water ☐ Directly to receiving water
Specific receiving water(s) (if applicable)	Mahoning River
Estimated volume (million gallons) – if multiple locations, include volume for each	1.2 MG
Sewer system component(s) from which release occurred	☐ Manhole ☑ Constructed overflow ☐ Pipe crack ☐ Pump station ☐ Other (explain)
Cause(s) of overflow	Extreme weather

Steps taken or planned to eliminate and/or reduce the overflow – include schedule of major milestones	In the process of obtaining and Engineering firm to remove SSO.	W.
	MM*7.	
Steps taken or planned to prevent reoccurrence of the overflow(s) — include schedule of major milestones		
Steps taken or planned to mitigate the impact(s) of the overflow(s) – include schedule of major milestones		
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Additional information (attach additional pages, maps, etc. as needed)		
	N 51	
I CERTIFY THAT I HAVE	PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION IN T	TH

COMPLETE.

Signature

Date

Sewer Systems Superintendent Title

EPA 4237 (08/04)

Page 2 of 2



State of Ohio Environmental Protection Agency

Sanitary Sewer Overflow 5-Day Follow Up Report

Ohio EPA Form 4237

A CAMPAGNA	Report Submitted by:
Date	08/14/11
Facility Name	City of Warren, Warren Water Pollution Control Center
Ohio NPDES Permit No.	3PE0008*KD
Period Covered by Report	08/14/2011
Contact Person Name	Greg Lubert
Contact PersonTitle	Sewer Systems Superintendent
Mailing Address	2323 Main Ave SW
City, State, Zip	Warren, Ohio 44481
County	Trumbull
Telephone No.	330-841-2591 Ext 111
E-mail Address	glubert@warren.org
Event start date and time – if multiple locations, include information for each	Overflow Information 08/14/2011 1500 hr
Event end date and time	08/14/2011 1850 hr
Location(s) the SSO – include unique ID number if one exists.	High St & North Park 1108-78-2674
Destination(s) of overflow	☐ Basement or building ☐ Ground ☐ Storm sewer to receiving water
	☐ Directly to receiving water
Specific receiving water(s) (if applicable)	Mahoning River
Estimated volume (million gallons) – if multiple locations, include volume	.593 mgd

☐ Roots

☐ Manhole

Other (explain)

Extreme weather

Debris in line Other blockages

Other (explain)

for each

Sewer system

release occurred

Cause(s) of overflow

component(s) from which

☐ Pump station

Power failure

Grease

Vandalism

Equipment failure

Line deterioration

Pipe crack

Steps taken or planned to eliminate and/or reduce the overflow – include schedule of major milestones	In the process of obtaining an engineering firm to remove SSO.
Steps taken or planned to prevent reoccurrence of the overflow(s) – include schedule of major milestones	
8	
Steps taken or planned to mitigate the impact(s) of the overflow(s) – include schedule of major milestones	
	2
Additional information (attach additional pages, maps, etc. as needed)	
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I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION IN THIS REPORT AND ALL ATTACHMENTS. I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Signature

8-15-11

Sewer Systems Superintendent

Title

EPA 4237 (08/04)

Page 2 of 2

River Sulfide mg/L

	Mahoning River	Mahoning River	Mahoning River	Shenango River	Shenango River	Mahoning River	Mahoning River	Mahoning R	Mahoning
	New Castle, PA	New Castle, PA	Big Beaver	Shenango, PA	Shenango, PA	Leavittsburg, OH	Niles, OH	Lowellville,OH	Lowellville, OH
date		Downstream							
8.25.11	0.018				0.026				
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AVRG	0.01	0.01				0.01	0.01	0.02	0.01
MIN	0.005	0.007				0.012	0.008	0.006	0.003
MAX	0.018	0.023				0.013	0.01	0.032	0.03

River Sulfide mg/L

	Mahoning River	Mahoning River	Shenango River	Shenango River	Mahoning River	Mahoning River	Mahoning R	Mahoning
	New Castle, PA	New Castle, PA	Shenango, PA	Shenango, PA	Leavittsburg, OH	Niles, OH	Lowellville,OH	Lowellville, OH
date	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
12.29.10	0.002	0.004			- 10-30000000000000000000000000000000000			
1.7.11	0.004	0.004			0.004	0.01		
1.12.11	0.01	0.004			0.008	0.013		
1.21.11	0.005				0.006	0.01		
1.28.11	0.003	0.008			0.005	0.005		
2.1.11					0.008	0.007		
2.4.11	0.011	0.008			0.007	0.009		
2.8.11					0.005	0.006		
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3.2.11	0.039			0.005	0.001	0.016		
3.4.11	0.03		The second secon	0.069	0.025			
3.7.11	0.064			0.048				
3.10.11	0.04			0.055				
3.14.11	0.026 0.016			0.033		0.036		
4.29.11 5.6.11	0.018			0.008				
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5.19.11	0.000			0.067	0.008			
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7.7.11		.013*						
7.13.11	0.013		3	0.01	0.014	0.01	0.01	0.009
7.13.11		.012*			*			
7.21.11	0.008		9	0.005	0.014	0.009	0.01	1 0.009
7.21.11		0.008*		400		5,		
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8.10.11		.013*			××			
8.18.11	0.007		<u> </u>	0.012	0.016	0.009	0.00	9 0.006
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AVRG	0.02	0.02	+	-	0.02	0.02	0.01	0.01
MIN	0.002	0.004			0.001	0.003	0.004	0.003
MAX	0.064	0.065			0.072 eam in Big Bea	0.07	0.044	0.043

^{*} denotes the sample was grapped further downstream in Big Beaver & Manoning mixing zone

River TDS, mg/L

	Mahaning Biyor	Mahaning Piyar	Mahoning River	Shanango Diver	Shenango River	Mahaning Piver	Mahaning Diver	Mahoning R	Mahoning
Parker					Shenango, PA				
ate				Upstream	Downstream				
.21.11	292				180				
.28.11	300		284		200	208			300
.4.11	248	1			152	160			
.10.11	268		Annual Control of the		200	224			308
.18.11	300				232	232			
.25.11	336				236				
.1.11	352				176			novi — — — — — — — — — — — — — — — — — — —	
).8.11	360	416	352		252	256	348	364	364
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AVRG MIN	307.00 248	352.00 284		#DIV/0!	203.50 152	222.50 160	275.00 200	303.00 244	307.00 252
MAX	360	456	1	0	252	256	348	364	364

River TDS, mg/L

	Mahoning River	Mahoning River	Shenango River	Shenango River	Mahoning River	Mahoning River	Mahoning R	Mahoning
	New Castle, PA	New Castle, PA	Shenango, PA	Shenango, PA	Leavittsburg, OH	Niles, OH	Lowellville,OH	Lowellville, OH
ate	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
0.1.10	340	484	224	212				
0.8.10	388	424						
0.15.10	380	500				- Markana and Carlo and		
0.29.10	372	436						
1.4.10	384	508						
1.10.10	396	580	Contract of the Contract of th				ALCOHOLOGIC CONTROL	
1.19.10	348	400						
1.29.10	348	432						
2.3.10	240	268				No.		
2.10.10	368	380	11651					
2.17.10	308	316			256			
2.22.10	364	372			284			
2.29.10	384	388		ř.	308			
.4.11					224			
.7.11	284	292			272			
.12.11	332	352			248			
.21.11	472	480			292			
.28.11	452	496	5		312		-	
2.1.11					308			
.4.11	772	784			412			
2.8.11	le .				384			
.11.11	560				404	V 20000	10.	
2.14.11	568				388			
2.18.11	408			208				<u> </u>
2.28.11	384			200				
3.2.11	164			168				
3.4.11	292			308				1
3.7.11	212			110				
3.10.11	388			130				
3.14.11	260			120				+
4.29.11	248			14				-
5.6.11	216			10				
5.11.11	272			12				
5.19.11	232	224	4	12	200	200	24	8 24
5.23.11				+	168	8 20		
5.26.11		 			12	VIII.		
6.2.11	200) 228*			129	14	10	1
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6.30.11	356		4	20	8 21	2 27	2 36	0 36
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7.7.11	340		6	20	4 24	0 26	8 32	8 33
7.7.11 7.7.11	340	368*	\	1 20	- 27	20	5 52	
7.13.11	320		2	16	4 21	2 24	4 28	8 30
7.13.11		33	188*	1			. 20	
AVRG	The first of the second	388.23	224.00	168.80	248.39	298.19	277.50	280.00
MIN	164	184	224.00	100.00	128	136	168	164
MAX	772	784	224	308	412	868	360	368

River Chloride mg/L

	Mahoning River	Mahoning River	Mahoning River	Shenango River	Shenango River	Mahoning River	Mahoning River	Mahoning R	Mahoning
					Shenango, PA				
late					Downstream				
3.25.11	80		80		60				
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).8.11	100				60				
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AVRG	86.67	93.33		#DIV/0!	60.00	73.33	86.67	86.67	86.67
MIN	80	80		0	60	60	80	80	80
MAX	100	120		0	60	100	100	100	100

River Chloride mg/L

			AND SALES DELL	1110110	9 11 19/			
	Mahoning River		Shenango River					
	New Castle, PA	New Castle, PA	Shenango, PA	Shenango, PA	Leavittsburg, OH	Niles, OH	Lowellville,OH	Lowellville, OH
late	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
0.20.10	120	140			x s		II g	
2.7.10		NOTE SHOW			80	80		.0
2.29.10	100	100	TWOMIS IS TO THE TOTAL OF THE T				4	
1.7.11	80	80			60	60	N. Committee	
1.12.11	160	160			96	128		
1.21.11	140	160	9		80	100		ý.
1.28.11	120	140			80			
2.1.11	W				100			
2.4.11	320	340		ļ.	120			
2.8.11					120			
2.11.11	160	160			80			
2.14.11	180	200			120			
2.18.11	200	200		120				
2.28.11	160	140		60				
3.2.11	60			60				
3.4.11	80			40				
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4.29.11	80			60				
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6.2.11	00	60*		-	1 00) 00	- 00	1 0
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7.21.11		80*	*					
8.4.11	80			6	0 6	0 6	0 8	0 8
8.4.11		80*			- Destruction			
8.10.11	6		o l	8	0 8	0 6	0 8	0 8
8.10.11		60*						-14-74-12
8.18.11	8	100	0	6	0 6	0 6	0 8	3 0
AVRG	105.33	80* 113.10	#DIV/0!	57.78	72.38	83.38	75.00	75.00
MIN	60	60	0	40	40	40	60	60
MAX	320	340	1 0	120	120	180	100	100

City of
Warren, Ohio
Water Pollution Control
Sewer Use Ordinance
Last revision 7/31/06

CHAPTER 922 Private Sewage Waste

922.01 PURPOSE.

It is the purpose of this chapter to establish regulations for the disposal, by private haulers of delivery to the Warren Water Pollution Control Center treatment facility, of wastes from septic tanks and from privately owned and operated package sewage treatment plants, and to fix charges for the acceptance and treatment thereof.

922.02 CITY HEALTH DEPARTMENT AND COUNTY PERMIT REQUIRED.

As a prerequisite for obtaining permission to dispose, by private hauler to the Warren Water Pollution Control Center treatment facility, of wastes from septic tanks or from privately owned and operated package sewage treatment plants, each hauler of such wastes shall obtain a permit to haul sewage tank cleaning waste from the City Health Department. A copy of this permit shall be on file at Warren Water Pollution Control Center treatment facility before permission is granted to discharge waste. Haulers of septic tank waste from other counties shall present a permit to haul septic tank wastes from their respective county's Board of Health, when applying to the City Health Department for its permit to operate and discharge. This permit shall be renewed annually.

922.03 HEALTH DEPARTMENT PERMIT REQUIRED.

All haulers of wastes from septic tanks or privately owned and operated package sewage treatment plants, in order to dispose of such wastes at the Warren Water Pollution Control Center treatment facility shall first obtain a permit from the Health Department for each vehicle used for this purpose, by making application on forms provided therefore by the Health Department and by providing the permit called for in Section 922.02.

922.04 REFUSAL OF SERVICES.

Warren Water Pollution Control Center treatment facilities may refuse the services of its facilities to haulers of septic tank waste or wastes from privately owned and operated package sewage treatment plants delivered by private hauler's to Warren's treatment facilities for specific loads if the hauler has failed to tender payment for disposal charges within sixty days of the date of billing the department or if the waste material to be delivered to the treatment facility is determined to:

- (a) Be deleterious to the treatment facility or appurtenances thereto;
- (b) Cause unusual expense in the handling and treatment;
- (c) Inhibit the performance of the treatment process;
- (d) Cause the plant to fail to meet effluent limits set by State and Federal regulatory agencies; or
- (e) Contain industrial or scavenger waste.

922.05 REVOCATION OF PERMIT.

The Director of the Warren Water Pollution Control Center may revoke the wastewater disposal permit acquired by haulers of septic tank or waste from privately owned and operated package sewage treatment plants if the hauler:

- (a) Misrepresents the nature and source of the wastewater; or
- (b) Refuses to allow safety, traffic and disposal directions of the plant operators at the treatment plants; or
- (c) Fails to tender payment for disposal charges within sixty days of the date of billing by the City.

922.06 DISPOSAL POINT.

The only permitted location for disposal of septic tank wastes or other approved wastes is at the water pollution control treatment facilities, 2323 Main Avenue, S.W., Warren, Ohio at a point designated by the Director of the Water Pollution Control Department. Hours of operation shall be established by operational considerations of the facility and haulers shall be so notified. No waste shall be discharged into any sewer, manhole, catch basin or any appurtenance thereto or into any natural watercourse.

922.07 REPORTING INFORMATION.

All haulers of septic tank waste or waste from privately owned and operated package plants are required to report to the Warren Water Pollution Control Treatment facility information pertaining to the source of such waste. This information shall be submitted by the haulers on such forms as may be issued by the Director of the Warren Water Pollution Control Center.

922.08 TREATMENT CHARGES FOR SEPTIC TANK WASTE.

Treatment charges for septic tank waste or waste from privately owned and operated package sewage treatment plants shall be the following:

A minimum of seventy dollars (\$70.00) for each load delivered to the treatment plant for treatment or a charge of seven cents (7ϕ) per gallon for each load with a volume greater than 1,000 gallons. The tank size of the truck shall determine the gallonage charge over 1,000 gallons regardless of the volume in the tank at the time of discharge. These charges shall be reviewed annually and adjusted as necessary.

922.09 TREATMENT CHARGES FOR UNDERGROUND STORAGE TANK WATER REMOVAL.

A minimum of one hundred fifty dollars (\$150.00) for each load delivered to the treatment plant for treatment or a charge of fifteen cents (\$0.15) per gallon for each load with a volume greater than 1,000 gallons. The tank size of the truck shall determine gallonage charge over 1,000 gallons regardless of volume in the tank at the time of discharge. All water shall be lab certified to be non-detectable of any hazardous or toxic pollutants. These charges shall be reviewed annually and adjusted as necessary.

922.10 NON-HAZARDOUS LEACHATE WATER.

Non-hazardous leachate water may be deposited or discharged into the City's sewerage system. Such may be done directly or by the delivering of same to the Warren Water Pollution Control Center.

The treatment charge for non-hazardous leachate water, whether discharged directly or hauled to the Warren Water Pollution Control Center, is three cents (\$0.03) per gallon.

A depositor or discharger of non-hazardous leachate water is subject to all applicable sewage and sewer ordinances, statutes, rules and regulations, including, but not limited to, those relative to industrial discharge and industrial pretreatment.

922.11 DELINQUENT ACCOUNTS.

Any charge resulting from this chapter that remains unpaid thirty days after the billing date thereof shall be considered delinquent and shall, thus, be subject to a penalty of one and one-half percent (1 1/2%) on the outstanding balance per billing cycle.

CHAPTER 923 Sewer Regulations

923,005 DEFINITIONS.

As used in this chapter, the following words shall have the meanings ascribed to them in this section.

- (a) "Combined sewer" means a sewer intended to serve as a sanitary and storm sewer.
- (b) "Control manhole" means a manhole or other means of access provided by an industrial user for the purpose of permitting inspection, monitoring and metering of flows generated on the user's premises.
- (c) "NPDES Permit" means any permit or equivalent document or requirement issued by the Ohio EPA to regulate the discharge of pollutants pursuant to the "National Pollutant Discharge Elimination System" (NPDES) as established by the U.S. EPA.
- (d) "Ohio EPA" means the Ohio Environmental Protection Agency, a State regulatory agency.
- (e) "Sanitary sewer" means a sewer intended to carry only sewage exclusive of storm water.
- (f) "Sewer" means a pipe or conduit for carrying sewage.
- (g) "Storm sewer" means a sewer intended to carry only storm water, surface run-off, street wash waters and drainage.
- (h) "U.S. EPA" means the United States Environmental Protection Agency, a Federal regulatory agency.

923.01 SANITARY SEWER MAIN FEES; ASSESSMENT.

Before a connection permit to the sanitary sewer main is issued to a licensed sewer builder or plumber for the owner of property for which a sanitary sewer connection is desired, the City Engineer shall determine a sanitary sewer main fee, in accordance with the following:

- (a) If the property for which a sanitary connection is desired, has been previously assessed for a sanitary sewer main by a political subdivision or the sewer main has been installed by a developer at his expense, there shall be no charge for the sanitary sewer main fee. However, the service charge and inspection fee shall be in effect as described in Section 923.015.
- (b) If the owner of property for which a sanitary sewer connection is desired has not previously contributed toward an existing sewer main, then the fee shall be twenty-four dollars (\$24.00) per foot front for the sanitary sewer main fee. This fee contributes to the cost of constructing the sanitary sewer main. Also to be included are the service charge and inspection fees, as described in Section 923.015.
- (c) If a sanitary sewer main is extended by an individual, at his expense under a special construction permit issued by the City Engineer, there shall be no fee for the special permit; however, the owner shall pay inspection charges for the construction of the sanitary sewer main extension and the standard service charges and inspection fees for each connection thereto, as described in Section 923.015.
- (d) All sanitary sewer main fees, as described herein, are collected to defray the cost of construction of such sanitary sewer main where there was no contribution by the abutting affected property's at the time of construction. These main fees are to be deposited to

the Sewerage Revenue Fund. All inspection fees are to be deposited to the General Fund.

923.015 SERVICE CHARGE AND PERMIT FOR SEWER CONNECTIONS OR DEPOSITS; FEE.

No person shall connect any pipe with any manhole, lamphole, catch basin, inlet or any public sanitary or storm sewer of the City or deposit anything in any manhole, lamphole, catch basin or street inlet without first obtaining a permit to do so from the City's Director of Engineering, Planning and Building. Permits for any connection shall be issued only to sewer builders or plumbers licensed by the City. Before a new sanitary sewer connection permit is issued, proof in the form of a deposit receipt for sanitary sewer service as issued by the Warren City Water Department must accompany the application.

In addition to the sanitary sewer main fee as described in Section 923.01 there shall be service charges and inspection fees issued and collected by the City Engineering Department office and the fees for the same shall be as follows:

(a) The Ohio Environmental Protection Agency has estimated that the average amount of water used by a standard single-family residential dwelling amounts to 400 gallons per day. Therefore, service charges shall be determined by using a standard single-family residential dwelling as the basic unit. The service charge for a basic unit shall be three hundred dollars (\$300.00) per each 400 gallons of water or part thereof used per day. However regardless of water usage or type of structure, the minimum tap-in and service charge shall be in the amount of three hundred dollars (\$300.00). In estimating water used by installations other than single-family residential dwellings, the following Sewage Flow Guide, as established by the Ohio Environmental Protection Agency, shall be used along with the owner's or applicant's detailed specifications and projected activities for such installation.

SEWAGE FLOW GUIDE

SEWAGE FLOW GUIDE						
<u>Installation</u>	Sewage Flow (gallons per day)					
Apartments	250 one-bedroom					
	300 two-bedroom					
	350 three-bedroom					
Assembly halls	2 per seat					
Bowling alleys (no food service)	75 per lane					
Churches (small)	3 - 5 per sanctuary seat					
Churches (large with kitchen)	5 - 7 per sanctuary seat					
Country clubs	50 per member					
Dance halls	2 per person					
Drive-in theaters	5 per car space					
Factories (no showers)	25 per employee					
Factories (with showers)	35 per employee					
Food service operations						
Ordinary restaurant (not 24-hour)	35 per seat					
24-hour restaurant	50 per seat					
Banquet rooms	5 per seat					
Restaurant along freeway	100 per seat					
Tavern (very little food service)	35 per seat					
Curb service (drive-in)	50 per car space					
Vending machine restaurants	100 per seat at					
Homes in subdivisions	400 per dwelling					
Hospitals (no resident personnel)	300 per bed					
Institutions (residents)	100 per person					
Laundries (coin-operated)	400 per standard size machine					
Mobile home parks	300 per mobile home space					
Motels	100 per unit					
Nursing and rest homes	150 per patient					
	100 per resident employee					
	50 per nonresident employee					
Office buildings	20 per employee					
Recreational vehicle parks and camps	125 per trailer or tent space					
Retail store	20 per employee					
Schools – elementary	15 per pupil					
High and junior high	20 per pupil					
Service stations	1000 first bay or pump island					
Shopping centers (no food service or						
laundries)	0.2 per square foot of floor space					
Swimming pool (average)	3 - 5 per swimmer (design load)					
with hot water shower	5 - 7 per swimmer (design load)					
Vacation cottages	50 per person					
Youth and recreation camps	50 per person					
	basis of submitted data to be determined by					
multiplying the estimated amount of gall	ons of water used per day by three hundred					

dollars (\$300.00) per 400 gallons of water or part thereof, used per day. These fees shall be paid to the Sewer Revenue Fund.

- (b) In the event the installation is not covered under the Sewage Flow Guide or is not applicable, as determined by the City Engineer, then the service charge shall be determined by multiplying the total number of square feet within the installation, including basement floor areas and excluding the garage floor areas by 0.2 per square foot. This product shall then be multiplied by three hundred dollars (\$300.00) per 400 gallons of water or part thereof, used per day. These fees shall be paid to the Sewer Revenue Fund.
- (c) In the event the installation that is proposed is to be rebuilt or built on land where an existing building has been razed or moved, there shall be no service charge as long as the installation proposed is comparable to the razed or moved building; that is single-family, commercial or industrial user. However, the permit fee shall remain in effect in accordance with subsection (e) hereof.
- (d) In the event the installation proposed is of an industrial type (industrial type being defined as any activity where materials are received at the installation altered by one or more internal operations and then dispatched in the altered form to the City's sanitary sewer system), no permit shall be issued until the City's pretreatment program is satisfied in accordance with Chapter 924 and written approval from the Water Pollution Control Superintendent for the same is received by the City Engineer.
- (e) In addition to the service charge fee as covered under subsections (a) to (d) hereof, there shall be three classes of inspection permits and fees, as follows:
- (1) For residential service, a twenty-five dollar (\$25.00) fee.
- (2) For commercial service, a fifty-dollar (\$50.00) fee.
- (3) For industrial service, a seventy-five dollar (\$75.00) fee.

These permit fees shall be collected by the City Engineer, to defray the cost of administration and inspection for the same and deposited to the General Fund.

- (f) There shall be no service charge required of any applicant for a storm sewer tap-in, however, inspection permit fees as established under subsection (e) hereof, shall remain in effect.
- (g) Where a property is affected by an assessment for a proposed or existing sanitary sewer as defined in Section 903.01, the above service charge and inspection permit fees shall remain in effect for same.
- (h) A sanitary sewer connection subsidy program is available for low to moderate income persons who apply for and meet the qualifications as determined by the City Auditor's Office which will be in compliance with CFR Section 8 income standards as amended. The City Auditor is hereby authorized to administer this program through the Sewerage Revenue Fund, as established.

- (i) Requests for sewer connections not covered by the provisions herein shall be decided by the Sewer Review Board, which is composed of the Director of Public Service and Safety, the City Engineer and the Director of the Water Pollution Control Department.
- (j)All service charges collected by the City Engineer under this section shall be deposited to the Sewerage Revenue Fund.

923.02 CONNECTIONS TO BE INSPECTED AND APPROVED PRIOR TO COVERING.

Any licensed sewer building or plumber making any connection with a public sewer, and before covering the same, shall have the connection inspected and approved by the City Engineer. No lateral shall be left open or exposed.

The City Engineer shall be notified by the plumber or sewer builder when the work is ready for inspection. All work shall be left uncovered and convenient for examination when practicable until inspected and approved. All sewer connections shall be inspected from the point of commencement to a point within three feet of the outside wall of the building. No notice shall be sent for any inspection until the work is entirely ready for the same.

923.03 DEPOSITING REFUSE IN SEWERS.

No garbage, offal, dead animals, wood, stone, straw, rags, grease, grit, leaves, sticks, grass clippings or other substance of a tougher or harder texture than toilet tissue shall be deposited in any manhole or any sanitary sewer, nor shall they be deposited in any manhole, inlet or catch basin of any storm sewer.

Grease/grit interceptors shall be installed on all existing and future building sanitary sewer laterals where such buildings are proven contributors of deleterious and detrimental materials, as defined under Section 4101:2-51-24 interceptors of the Ohio Plumbing Code within the Ohio Administrative Code, to the City's sanitary sewer system.

Where such contributions are found to exist, the City Engineer shall notify the property owner by certified mail to install a grease/grit interceptor, as described above, within ninety days of receipt of notification.

Failure to construct a grease/grit interceptor within the specified time frame shall result in a penalty of one hundred dollars (\$100.00).

A separate offense shall be deemed to have been committed for each period of twenty-four hours that such violation continues after a period of thirty days following the original conviction.

923.04 INJURING OR REMOVING MANHOLES OR CATCH BASINS.

No person shall break, damage in any way or remove any portion of any manhole, catchbasin or any part of any sewer or appurtenance thereto without a permit to do so as approved and issued by the City Engineer.

923.05 SEPTIC TANK REQUIREMENTS.

No person, owner, agent, lessee, tenant or occupant of any lot, land or parcel of land or building thereon located within the City shall establish or construct a privy, septic tank, cesspool or other receptacle for sewage or excreta or a connection to a private sewer, ditch or other outlet without first obtaining a permit to do so, as issued by the City Health Department.

923.06 MANDATORY CONNECTION TO SANITARY SEWER.

When a public sewer, water main or other water supply is available or is hereafter made available, a connection to such public sewer shall be established and constructed. The cost of such construction including any permit fees as set forth in Sections 923.01 and 923.015, and any other ordinances now in effect or which may take effect in the future, shall be paid by such person, owner, agent, lessee, tenant or occupant.

Failure to make the connection within ninety days' notification by the City Engineer shall result in a penalty of one hundred dollars (\$100.00).

A separate offense shall be deemed to have been committed for each period of twenty-four hours that such violation continues after a period of thirty days following the original conviction.

923.07 CLEAN WATER DRAIN CONNECTIONS PROHIBITED.

(a) The practice of connecting downspouts or garage or driveway drains, and specifically sunken driveway drains or other surface drains to the sanitary sewer system is prohibited. Broken or leaking service connections on laterals are likewise prohibited. Where such connections now exist, the practice shall be stopped. The City Engineer is authorized and directed to investigate all conditions where such connections exist or are reported to exist.

Where such connections are found to exist, the City Engineer shall order them removed or eliminated or repaired on or before ninety days after the date of such order. The abandoned section of the connection shall be permanently sealed to the satisfaction of the City Engineer.

- (b) The order shall be made against and served personally or by certified mail upon the owner, operator, manager, lessee, agent or occupant of the building or premises which such connection serves. If no such person can be found upon whom the order can be served, it shall be sufficient notice to post copies of the order at two conspicuous places upon the building or premises.
- (c) If such connections are not removed or eliminated within the ninety-day period prescribed in such order, the City Engineer is authorized to charge double the rate shown in Section 925.03(b) until such connection has been removed or eliminated. If the illegal connection is not removed within ninety days after notification, then the City Engineer is authorized to charge triple the rate shown in Section 925.03(b). If the illegal connection is still not removed within ninety days after the triple notification, the City Engineer is hereby authorized to disconnect the illegal connection from the City's sanitary sewer system, in accordance with Section 923.12, or have the same corrected and charged to the Sewerage Mortgage Capital Improvement Fund. The property owner shall then be billed

for all assessed costs incurred for the same, with the funds collected being reimbursed to the Sewerage Mortgage Capital Improvement Fund.

Should the City Engineer cause to disconnect the sewer lateral from the City's sanitary sewer system, such disconnection shall be performed within the street right of way or public easement. It shall then be the responsibility of the property owner to reconnect to the City's sanitary sewer system and pay the appropriate fees, in accordance with Section 923.015 upon the correction of the cited violation.

- (d) In the event a building is to be demolished or physically removed from its original site, the sanitary sewer building lateral shall be permanently sealed with concrete to the satisfaction and inspection of the City Engineer, prior to demolition or removal. All persons desiring to demolish or remove a building shall first obtain a permit to seal the lateral, as described herein, from the City Engineer. There shall be no charge for the permit, however, there shall be a twenty-five dollar (\$25.00) inspection fee and the permit holder shall accompany the City Inspector at the time of inspection.
- (e) No person shall discharge into the building sewer the surface water that collects in the basement or foundation excavations. If the building sewer is connected before the plumbing is to be connected, the sewer builder shall provide and seal a plug in the end of the building sewer, or if the sewer has been extended into the basement and decreased in size a plug of proper size shall be sealed in the end until such time as the plumber is ready to connect the plumbing to the building sewer. Any surface water accumulation shall be pumped on the ground outside the building foundation.
- (f) From and after the effective date of this section, no person, firm or corporation shall, in constructing a new building or correcting a problem, cause or permit footer drains or foundation drains to be connected directly or indirectly into a sanitary sewer.
- (g) The practice of repairing existing footer drains without removing their outflow discharge from the sanitary sewer building lateral is prohibited. When such repairs are made, the existing footer connection shall be removed from the lateral and properly discharged to a clean storm water outlet, that is storm sewer, inlet, catch basin, road ditch or downspout opening at the curb. The practice of connecting sump pumps, or other mechanical means, to the downspout opening at the curb is prohibited. Any such existing connection creating a public nuisance shall be ordered removed and permanently eliminated at no cost to the City. If such outfall cannot be accomplished by gravity flow, then a form of sump pump shall be installed to discharge clean water as stated herein.

All corrective work to the sanitary sewer service lateral as described herein shall include an exterior clean out within five feet of the foundation. The clean out shall be constructed to the satisfaction of the Director of Engineering, Planning and Building or his designated appointee. The clean out shall be constructed of the same materials as the sanitary sewer service lateral and shall have a removable watertight plug to prevent the infiltration of clean water. The clean out shall be of such design to allow sewer cleaning equipment access to the sanitary sewer service lateral, outside of the structure serviced by same.

(h) The practice of installing basement waterproofing systems that connect to the existing footer system, that in turn connects to the sanitary sewer building lateral is prohibited. When such systems are installed, they shall discharge to a clean water outlet, as described in subsection (g) hereof.

All corrective work to the sanitary sewer lateral as described herein shall include an exterior clean out within five feet of the foundation. The clean out shall be constructed to the satisfaction of the Director of Engineering, Planning and Building, or his designated appointee. The clean out shall be constructed of the same materials as the sanitary sewer service lateral and shall have a removable watertight plug to prevent the infiltration of clean water. The clean out shall be of such design to allow sewer cleaning equipment access to the sanitary sewer service lateral, outside of the structure serviced by same.

- (i) No person, in regard to subsections (g) and (h) hereof shall perform any work or connection on a building's footer drain or sanitary sewer building lateral without first obtaining a permit to do so by the City Engineer. Permits shall be issued only to licensed sewer builders, licensed plumbers or the property owner, if they are to perform the work themselves. There shall be no charge for the permit or inspection thereof.
- (j) Whoever violates subsection (g), (h) or (i) hereof shall be subject to the charges as described in subsections (a), (b) and (c) hereof.

923.08 SANITARY SEWER SERVICE OUTSIDE CITY.

(a) Unincorporated property adjacent to the corporate limits of the City.

The sanitary sewerage system of the City shall not be extended to any unincorporated lot, parcel or piece of real property adjacent to the corporate limits of the City and not already serviced by that system unless and until each and every fee owner of such lot, parcel or piece of real property agrees, in writing with the City, that such lot, parcel or piece of real property shall be completely annexed to the City within one year from the date such agreement is made and entered into. Should the lot, parcel or piece of real property not be completely annexed to the City for any reason whatsoever, within one year from the date the agreement is made and entered into, the City, by and through its Director of Public Service and Safety and without any further liability or expense on its part, may terminate such agreement and any and all sewer service incidental thereto. Should such lot, parcel or piece of real property be completely annexed to the City within such one-year period, and should there otherwise be compliance with laws, rules and regulations, such sewer service (only temporary until then) shall be considered for permanent status.

In light of the foregoing, the sanitary sewerage system of the City shall not be extended to any unincorporated lot, parcel or piece of real property adjacent to the corporate limits of the City and not already serviced by that system unless and until a complete and applicable agreement in the form provided in Ordinance 10628/94 is fully executed by each and every fee owner of the real property in question, and the appropriate officials of the City.

Notwithstanding any foregoing provisions within this subsection (a) to the contrary, any and all provisions within this subsection (a) relative to the preconditioning of the extension of sewer service upon agreement to annex shall not apply, and do not apply to, any unincorporated lot, parcel or piece of real property adjacent to the corporate limits of

the City of Warren owned by a political subdivision of the State of Ohio, including a board of education.

Should, however, sewer service be extended in accordance with, or pursuant to, the preceding paragraph, and the unincorporated lot, parcel or piece of real property involved should thereafter cease to be owned by a political subdivision, then, and in that event, the unincorporated lot, parcel or piece of real property in question shall be completely annexed to the City within one (1) year from the date a political subdivision ceases to own same. Should such lot, parcel or piece of real property not be completely annexed to the City, for any reason whatsoever, within one (1) year from the date a political subdivision ceases to own same, the City, by and through its Director of Public Service and Safety and without any further liability or expense on its part, may terminate the sewer service so extended.

(b) Unincorporated property not adjacent to the corporate limits of the City.

The sanitary sewerage system of the City shall not be extended to any unincorporated lot, parcel or piece of real property not adjacent to the corporate limits of the City and not already serviced by that system unless and until each and every fee owner of said lot, parcel or piece of property agrees, in writing with the City, that such lot, parcel or piece of real property shall be completely annexed to the City within one (1) year from the date the lot, parcel or piece of real property first becomes adjacent to the corporate limits of the City. Should said lot, parcel or piece of real property not be completely annexed to the City, for any reason whatsoever, within one (1) year from the date it first becomes adjacent to the corporate limits of the City, the City, by and through its Director of Public Service and Safety, and without any further liability or expense on its part, may terminate said agreement and any and all sewer service incidental thereto.

In light of the foregoing, the sanitary sewerage system of the City shall not be extended to any unincorporated lot, parcel or piece of real property not adjacent to the corporate limits of the City and not already serviced by that system unless and until a complete and applicable agreement in the form provided by Ordinance 10628/94 is fully executed by each and every fee owner of the real property in question, and the appropriate officials of the City.

(c) Before any connection permitted by subsections (a) or (b) hereof can occur, a permit therefor shall be obtained from the City's Director of Public Service and Safety through the Director of Engineering, Planning and Building. Such permit shall only be issued to a sewer builder or plumber licensed by the City. Before a new sanitary sewer connection permit is issued, proof in the form of a deposit receipt for sanitary sewer service as issued by the Warren City Water Department must accompany the application.

Before such permit is issued for connection to a sanitary sewer main, however, the City's Director of Engineering, Planning and Building shall determine a sanitary sewer main fee in accordance with the following:

(1) If the property for which a sanitary connection is desired has been previously assessed for a sanitary sewer main by a political subdivision, or the sewer main has been installed by a developer at his expense, there shall be no charge for the sanitary sewer main fee. However, the service charge and inspection fee shall be in effect as described in Section 923.015.

- (2) If the owner of property for which a sanitary sewer connection is desired has not previously contributed toward an existing sewer main, then the fee shall be thirty-six dollars (\$36.00) per foot front for the sanitary sewer main fee. This fee contributes to the cost of constructing the sanitary sewer main. Also to be included are the service charge and inspection fees as described in Section 923.015.
- (3) If a sanitary sewer main is extended by an individual at his expense under a special construction permit issued by the City's Director of Engineering, Planning and Building, there shall be no fee for the special permit; however, the owner shall pay inspection charges for the construction of the sanitary sewer main extension and the standard service charges and inspection fees for each connection thereto as described in Section 923.015.
- (4) All sanitary sewer main fees are collected to defray the cost of constructing such sanitary sewer main where there was no contribution by the abutting affected property at the time of construction. These main fees are to be deposited to the Sewerage Revenue Fund. All inspection fees are to be deposited to the General Fund.
- (d) The Director of Public Service and Safety is authorized to execute, for and on behalf of the City, any agreement set forth previously in subsections (a) and (b) hereof.

In addition to constituting contractual terms and provisions, the terms and provisions set forth in the agreements set forth previously in subsections (a) and (b) hereof constitute and reflect policy, procedure, law and ordinances of the City relative to the extension of the sanitary sewerage system of the City to unincorporated property outside the corporate limits of the City not already serviced by that system.

- (e) Any connection or extension pursuant to this section shall also be made in accordance with applicable rules, regulations and ordinances of the City.
- (f) Should any term(s) or provision(s) of this section be in conflict with any other term(s) or provision(s) existing elsewhere in these Codified Ordinances, such term(s) or provision(s) of this section shall, and do, prevail.

923.09 SERVICE CHARGE AND PERMIT FOR SEWER CONNECTIONS OR DEPOSITS; FEE FOR NONRESIDENT.

Service charges and inspection fees shall be issued and collected at the City Engineering Department office and the fees for the same for nonresidents shall be established in accordance with the following:

(a) The Ohio Environmental Protection Agency has estimated that the average amount of water used by a standard single-family residential dwelling amounts to 400 gallons per day. Therefore, service charges shall be determined by using a standard single-family residential dwelling as the basic unit. The service charge for a basic unit shall be six hundred dollars (\$600.00) per each 400 gallons of water or part thereof used per day. However, regardless of water usage or type of structure, the minimum tap-in and service charge shall be in the amount of six hundred dollars (\$600.00). In estimating water used by installations other than a single-family residential dwelling, the sewage flow guide

located in Section 923.015(a) shall be used along with the owner's or applicant's detailed specifications and projected activities for the installation.

Calculation shall then be made on the basis of submitted data to be determined by multiplying the estimated amount of gallons of water used per day by six hundred dollars (\$600.00) per 400 gallons of water, or part thereof, used per day.

- (b) In the event the installation is not covered under the sewage flow guide or is not applicable, as determined by the City Engineer, then the service charge shall be determined by multiplying the total number of square feet within the installation including basement floor areas and excluding garage floor areas, by 0.2 gallons per square foot. This product shall then be multiplied by six hundred dollars (\$600.00) per 400 gallons of water, or part thereof, used per day.
- (c) In the event the installation that is proposed is to be rebuilt or built on land where an existing building has been razed or moved, there shall be no service charge as long as the installation proposed is comparable to the razed or moved building; that is single-family, commercial or industrial user. However, the permit fee shall remain in effect, in accordance with subsection (e) hereof.
- (d) In the event the installation proposed is of an industrial type (industrial type being defined as any activity where materials are received at the installation, altered by one or more internal operations and then dispatched in the altered form to the City's sanitary sewer system), no permit shall be issued until the City's pretreatment program is satisfied in accordance with Chapter 924 and written approval from the Water Pollution Control Superintendent for the same is received by the City Engineer.
- (e) In addition to the service charge fee as covered under subsections (a) to (d) hereof, there shall be three classes of inspection permits and fees, as follows:
- (1) For residential service, a fifty dollar (\$50.00) fee.
- (2) For commercial service, a one hundred dollar (\$100.00) fee.
- (3) For industrial service, a one hundred fifty dollar (\$150.00) fee.

These permit fees shall be collected by the City Engineer to defray the cost of administration and inspection for the same, and deposited to the General Fund.

- (f) There shall be no service charge required of any applicant for a storm sewer tap-in, however, permit fees as established under subsection (e) hereof shall remain in effect.
- (g) Where a property is affected by an assessment for a proposed or existing sanitary sewer, as defined in Section 923.08, the above service charges and permit fees shall remain in effect for the same.
- (h) Requests for sewer connections not covered by the provisions herein shall be decided by the Sewer Review Board, which is composed of the Director of Public Service and Safety, the City Engineer and the Director of the Water Pollution Control Department.
- (i) All service charges collected by the City Engineer under this section shall be deposited in the Sewerage Revenue Fund.

If the land for which a sewer permit or permits have been obtained is annexed to the City within a year of the permit date, the owner shall receive a refund based on fees shown in Section 923.015.

923.10 REVOCATION OF PERMIT; RIGHTS ACQUIRED, NOT VESTED.

All permits granted as provided in the preceding sections shall be revocable at any time at the pleasure of the City Engineer or Council. Such lot owners shall acquire no vested rights by reason of the granting of such permit.

923.11 EXPENSE OF CONNECTIONS; SUPERVISION.

All connections made under the provisions of the preceding sections shall be made at the expense of the lot owners and under the supervision and direction of the City Engineer.

923.12 REMOVAL OF CONNECTIONS.

The City Engineer may, at any time, cause any connection made under the provisions of the preceding sections to be removed.

923.13 MATERIALS, JOINTS AND CONNECTIONS.

The materials listed below may be accepted for sanitary gravity sewer construction, however, the selection of materials should take into account the nature of the wastes to be transported, compatibility with adjacent and connection materials, soils and the cleaning methods which will be used.

(a) Rigid Pipes	Material Specifications	Joint Specifications		
Asbestos – Cement	ASTM - C 428	ASTM - D 1869		
	ASTM - C 644			
Cast Iron	ANSI - A 21.6	ANSI - A 21.11		
201 C 9	AWWA - C 106	AWWA - C 111		
	ANSI - A 21.8			
	AWWA - C 108			
Clay	ASTM - C 700	ASTM - C 425		
Ductile Iron	ANSI - A 21.51	ANSI - A 21.11		
	AWWA - C 151	AWWA - C 111		
Non-reinforced Concrete	ASTM - C 14	ASTM - C 443		
Concrete Pressure Pipe	AWWA - C 300	AWWA - C 300		
•	AWWA - C 301	AWWA - C 301		
	AWWA - C 302	AWWA - C 302		
	ASTM - C 361	ASTM - C 361		
Reinforced Concrete	ASTM - C 76	ASTM - C 443		
*	ASTM - C 655			
	ODOT - 706.02			
	ODOT - 706.03			
a 9 y	ODOT - 706.14			
(b) Flexible Pipes	Material Specifications	Joint Specifications		
Acrylonitrile	ASTM - D 2680	ASTM - D 2680		

Butadiene Styrene (ABS) Composite		"O" ring preferred
Acrylonitrile	ASTM - D 2661	ASTM - D 2661
Butadiene Styrene	ASTM - D 2751	ASTM - D 2235
(4-inch and 6- inch buil	ding sewers only)	(solvent cemented)
(ABS)		
Polyvinyl Chloride	ASTM - D 3034	ASTM - D 3212
(PVC)	ASTM - D 3033	
Steel	AWWA - C 201	AWWA - C 201
	AWWA - C 202	AWWA - C 202
(c) Manholes	Material Specifications	Joint Specifications
Precast Concrete	ASTM - C 478	ASTM - C 443
(d) Ditch Pipe	Material Specifications	Joint Specifications
Reinforced Cement	ASTM - C 76	ASTM - C 443
Corrugated Steel	ASTM - A 444	Std. Connection Bond
	ASSHTO - M 218	
Polyvinyl Chloride	ASTM - D 2241	D - 3139
	Minimum wall thickness	(.50 inches)

923.14 INFILTRATION; TESTS.

After completion of the sewer, the City may require an infiltration or exfiltration test, whichever is decided by the City Engineer to be most practical at the time of completion. The infiltration shall not exceed 500 gallons of water per inch of pipe diameter per mile of sewer in a twenty-four hour period. Exfiltration shall not exceed 500 gallons of water per inch of diameter of pipe per mile of sewer in a twenty-four hour period based on a two-foot minimum head. The maximum infiltration and/or exfiltration may be lowered by a note on the plans, special permit or in the general specifications of the City. This test shall be made by the contractor at his expense under the supervision of the City Engineer.

923.15 METHOD OF LAYING SANITARY SEWER SERVICE PIPES.

All trenches shall be dug so that there shall be a clear space of not less than six inches between the sewer to be laid and the side of the trench or the timbers that may be used to keep the sides in place. The contractor will be required to maintain a clear width of roadway of at least ten feet.

Where possible, the sanitary sewer service pipes in residential districts shall have a minimum depth at the curb line of seven feet below the established grade of the curb, and in the business district at such depth as may be ordered by the Director of Engineering, Planning and Building. Where the depth of the main sewer will not permit a minimum depth of seven feet below the established grade of the curb, then the service pipes shall be laid from the main to the curb line with an inclination of one-eighth of an inch to each lineal foot of service. When laying the water service pipe in the same trench as the sanitary sewer service pipe, the trench shall be excavated of sufficient width at the top to allow for a benching not less than eight inches in width on which the water service shall be laid. The remaining depth of the trench for the sanitary sewer service shall be a width to provide the necessary clearance as hereinbefore specified.

Each new sanitary service lateral shall have an exterior clean out within five feet of the foundation. The clean out shall be constructed to the satisfaction of the Director of Engineering, Planning and Building, or his designated appointee. The clean out shall be constructed of the same materials as the sanitary sewer service lateral and shall have a removable watertight plug to prevent the infiltration of clean water. The clean out shall be of such design to allow sewer cleaning equipment access to the sanitary sewer service lateral, outside of the structure serviced by same.

Each connection at its junction with the main sewer shall be well and solidly supported so that the weight of the backfilling will not settle the pipe, causing the sockets to break and destroy the tightness of the joints. Each length of pipe shall be laid on a firm bed. The bottom of the trench under each bell shall be excavated so as to give the body of the pipe a solid bearing on the trench bottom of its entire length and permit the making of the joint. However, all pipe shall be installed in accordance with the manufacturer's specifications.

923.16 METHOD OF MAKING CONNECTIONS.

In making connections in all pipe sewers when "Y" branches have not been inserted at the time of the building of the sewer, a "Y" branch shall be inserted. The breaking of the shell of a pipe sewer and the insertion of a house connection shall not be permitted. Where a tap-in is to be made, an approved saddle shall be used which shall properly fit the curvature of the outside diameter of the sewer main to be tapped. The saddle shall be installed in accordance with the manufacturer's specifications, or if directed by the City Engineer, the saddle shall be banded to the existing sewer main using stainless steel or galvanized banding straps and thoroughly encased in class "C" concrete a minimum of three inches around the saddle, existing sewer main and all joints.

Where a tap is made, care shall be taken to insure that no broken pipe, brick or concrete enters the existing sewer.

Should the existing sewer pipe being tapped for a connection be broken in the wrong fashion, or in such a way that the structural integrity of the pipe is damaged, that section shall be removed in its entirety and replaced in accordance with procedures established by the City Engineer and done in the presence of the City Engineer or his representative.

923.17 METHOD AND REQUIREMENTS OF INSTALLATION OF PIPE IN STREET DITCHES BY RESIDENTS.

(a) No installing of ditch pipe shall be permitted in the City without a permit issued by the City Engineer's office.

A permit shall be issued only to a licensed and bonded sewer building contractor, licensed plumber or the property owner. There shall be no charge for the permit.

The permit holder shall be required to do the work as directed by the City Engineer or his representative.

All work shall conform to the specifications as established by the City Engineer and pass inspection to insure adherence.

(b) The size of the pipe to be installed should be the same as the downstream driveway pipe, but no less than ten inches in diameter and should be laid with open joints, true to line and grade, as established by the City Engineer.

The pipe should be either heavy-duty concrete, corrugated steel or polyvinyl chloride as established by Section 923.13(d).

When backfilling the pipe, care should be exercised to keep a swale over the pipe. The swale shall be at least six inches below the edge of the pavement or the sidewalk; whichever is the lowest so as not to cause water to lie on the street pavement or sidewalk. Any temporary standing storm water will be over the swale.

A drain or inlet will be provided at the lowest point in the swale to permit storm water to enter the ditch pipe. There shall be at least one inlet every fifty feet.

The inlet can be built out of brick over an opening in the ditch pipe, or a tee inserted in the ditch pipe, turned up and extended to the ground surface. A grate or grating of concrete, steel or iron shall be provided in the opening of the inlet to prevent injury and to keep leaves and debris from entering the ditch pipe. The property owner shall be responsible for keeping the grating clear.

(c) If these specifications are not adhered to and the installation causes water to stand on the street pavement or sidewalk, the City reserves the right to remove the ditch pipe and restore the ditch so as to eliminate the problem.

The City also reserves the right to remove the ditch pipe and appurtenances as required for future street construction.

923.18 CONNECTION CONTROL.

When determined by the Director of Public Service and Safety that additional connections to the sewer system will overload a specific sanitary sewer or the sewage treatment plant, the Director may order new connections to be limited, banned or controlled. Applicants for connection may appeal the order of the Director to Council for a final ruling.

923.99 PENALTY.

Whoever violates any provision of this chapter for which no penalty is otherwise provided shall be fined not more than two hundred fifty dollars (\$250.00) or imprisoned not more than thirty days or both for each offense.

CHAPTER 924 Sewer Wastes

924.01 PURPOSE AND POLICY.

This chapter sets forth uniform requirements for dischargers into the City sewage collection and treatment systems, and enables the City to protect public health and welfare in conformity with all applicable local, state and federal laws relating thereto.

The objectives of this chapter are:

- (a) To prevent the introduction of pollutants into the sewage treatment plant which will interfere with the normal operation of the system or contaminate the resulting municipal sludge;
- (b) To prevent the introduction of pollutants into the sewage treatment plant which do not receive adequate treatment, and which will pass through the system into receiving waters or the atmosphere or otherwise be incompatible with the system;
- (c) To improve the opportunity to recycle and reclaim wastewater and sludge from the system.

This chapter provides for the regulation of discharges into the sewage disposal works through the enforcement of administrative regulations.

924.02 DEFINITIONS.

As used in this chapter, the following words and phrases shall have the following meanings:

- (1) "Act" means the Federal Water Pollution Control Act Amendments of 1972, Public Law 92-500, and any amendments thereto; as well as any guidelines, limitations and standards promulgated by the U.S. Environmental Protection Agency pursuant to the Act.
- (2) "Biochemical oxygen demand" (BOD) means the quantity of oxygen utilized in the biochemical oxidation of organic matter expressed in parts per million by weight under standard laboratory conditions for five days at a temperature of twenty degrees Centigrade. The laboratory determinations shall be made in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (3) "Chemical oxygen demand" (COD) means the quantity of oxygen utilized in the chemical oxidation of organic matter expressed in parts per million by weight, in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (4) "City" means the City of Warren, Ohio.
- (5) "Discharger" means any nonresidential user who discharges an effluent into the City sewage disposal works by means of pipes, conduits, pumping stations, force mains, constructed drainage ditches, surface water intercepting ditches and all constructed devices and appliances appurtenant thereto.
- (6) "Environmental Protection Agency" (EPA) means the U.S. Environmental Protection Agency, or where appropriate "Environmental Protection Agency" may also be used as a designation for the Administrator or other duly authorized official of such Agency.
- (7) "Ground garbage" means the residue from the preparation, cooking and dispensing of food that has been shredded to such degree that all particles will be carried freely in

suspension under the flow conditions normally prevailing in public sewers with no particle greater than one-half inch in any dimension.

- (8) "Industrial user/discharger" means the source of indirect discharge to the POTW from any nondomestic source regulated under Section 307(b), (c) or (d) of the Federal Water Pollution Control Act.
- (9) "Industrial waste" means any solid, liquid or gaseous substance discharged, permitted to flow or escaping from any industrial manufacturing, commercial or business establishment or process, or from the development, recovery or processing of any natural resource.
- (10) "Interference" means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:
- A. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
- B. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of SWDA), the Clean Air Act, the Toxic Substances Control Act and the Marine Protection, Research and Sanctuaries Act.
- (11) "New source" means any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under Section 307(c) of the Act modified and defined for implementation in accordance with 40 CFR Section 403.3 paragraph (K) and Section 403.6 paragraph (B) provided that:
- A. The building, structure, facility or installation is constructed at a site at which no other source is located; or
- B. The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or
- C. The production of wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source will be considered.
- (12) "National Categorical Pretreatment Standard" means any regulation containing pollutant discharge limits promulgated by the U.S. EPA in accordance with Section 307(b) and (c) of the Act (33 U.S.C. 1347) which applies to a specific category of industrial dischargers.
- (13) "National Pollutant Discharge Elimination System" (NPDES) permit means the permit issued to the City pursuant to Section 402 of the Act (33 U.S.C. 1342).
- (14) "Oil and grease" means a group of substances with similar physical characteristics determined quantitatively on the basis of their common solubility in freon in accordance with procedures set forth in "Standard Methods" (See subsection (33)).

(15) "Parts per million" (ppm) means a weight-to-weight ratio; the parts-per-million value multiplied by the factor 8.345 is equivalent to pounds per million gallons of water.

"Milligrams per liter" (mg/l) is a synonymous term.

(16) "Pass through" means the discharge of pollutants through the POTW into navigable waters in quantities or concentrations which are a cause of or significantly contribute to a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

(17) "Person" means any and all persons, natural or artificial, including any individual, firm, company, municipal or private corporation, association, society, institution,

enterprise, governmental agency or other entity.

(18) "Pollutant" means the dredged spoil, solid waste, incinerator residue, wastewater, garbage, wastewater sludge, munition, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, commercial, domestic and agricultural waste discharged into water.

(19) "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into the City sewage treatment plant. The reduction or alteration can be obtained by physical, chemical or biological processes, or process changes by other means, except as prohibited by 40 CFR Section 403.6 (d).

(20) "Public sewer" means a sewer provided by or subject to the jurisdiction of the City. "Public sewer" also includes sewers within or outside the City boundaries that serve one or more persons and ultimately discharge into the City sewer system even though those

sewers may not have been constructed with City funds.

(21) "pH" means the logarithm, base 10, of the reciprocal of the hydrogen ion concentration expressed in moles per liter. "pH" shall be determined in accordance with procedures set forth in "Standard Methods" (See subsection (33)).

(22) "Safety-Service Director" means the Safety-Service Director of the City or his duly

authorized representative.

- (23) "Sewage" means the water-carried human, animal and household wastes in a public or private drain, and may include groundwater infiltration, surface drainage and industrial wastes.
- (24) "Sewage disposal works" means all facilities for collection, pumping, treating and disposing of sewage and industrial waste.
- (25) "Sewage treatment plant" means an assemblage of devices, structures and equipment for treatment of sewage and industrial waste.
- (26) "Sewer" means a pipe or conduit for conveying sewage or any other waste liquids, including storm, surface and groundwater drainage.
- (27) "Shall" means a mandatory requirement; "may" is permissible.
- (28) "Significant industrial user" (SIU) includes:
- All categorical industrial users;
- B. Any noncategorical industrial user which:
- 1. Discharges 25,000 gallons per day or more of process water ("process water" includes sanitary, noncontact cooling and boiler blowdown wastewater); or

- 2. Contributes a process wastewater which makes up five percent (5%) or more of the average dry weather hydraulic or organic (BOD, TSS, etc.) capacity of the treatment plant; or
- 3. Has a reasonable potential, in the opinion of the Control or Approval Authority, to adversely affect the POTW (inhibition, pass through, sludge contamination or endangerment of POTW workers).
- (29) "Significant noncompliance" (SNC) is a relative measure of industrial user noncompliance determined if the user's violations meet one or more of the following criteria:
- A. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all of the measurements taken during a six-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter;
- B. Technical review criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH);
- C. Any other violation of a pretreatment effluent limit (daily maximum or longer term average) that the Director determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of POTW personnel or the general public);
- D. Any discharge of a pollutant that has caused imminent endangerment of human health, welfare or to the environment or has resulted in the POTW's exercise of emergency authority to halt or prevent such a discharge;
- E. Failure to meet, within ninety days after the schedule date, a compliance schedule milestone contained in a wastewater discharge permit or enforcement order for starting construction, completing construction or attaining final compliance;
- F. Failure to provide, within thirty days after the due date, required reports such a baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports and reports on compliance with compliance schedules;
- G. Failure to accurately report noncompliance;
- H. Any other violation or group of violations which the Director determines will or has adversely affected the operation or implementation of the City's pretreatment program.
- (30) "Sludge" means any solid or semisolid waste generated by a municipal, commercial or industrial wastewater treatment plant, water supply treatment plant or air pollution control facility or any other waste having similar characteristics and effects as defined in standards issued under Sections 402 and 405 of the Act and in the applicable requirements under Sections 2001, 3004 and 4004 of the Solid Waste Disposal Act (PL 94-580).
- (31) "Slug" means any discharge of water, sewage or industrial waste which, in concentration of any given constituent or in quantity of flow, causes interference to the sewage treatment plant.

(32) "Standard Industrial Classification (SIC) Manual" means the SIC Manual, 2972,

Office of Management and Budget, as amended and supplemented.

(33) "Standard Methods" means the current edition of Standard Methods for the Examination of Water and Wastewater as published by the American Public Health Association, American Water Works Association and Water Pollution Control Federation.

(34) "Superintendent" means the Superintendent of the City Sewage Treatment Plant or

his duly authorized representative.

(35) "Suspended solids" (SS) means solids that either float on the surface of, or are in suspension or will settle in water, sewage or industrial waste, and which are removable by a laboratory filtration device. Quantitative determination of suspended solids shall be made in accordance with procedures set forth in "Standard Methods" (See subsection (33)).

(36) "Toxic pollutants" means any pollutant or combination of pollutants which is or can potentially be harmful to public health or the environment including those listed as toxic in regulations promulgated by the Administrator of the Environmental Protection Agency

under the provisions of CWA 307(a) or other Acts.

(37) "Upset" means an exceptional incident in which a discharger unintentionally and temporarily is in a state of noncompliance with the standards set forth in this chapter due to factors beyond the reasonable control of the discharger, and excluding noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack of preventive maintenance or careless or improper operation thereof.

(38) "Wastewater" means the liquid and water-carried or domestic wastes from dwellings, commercial buildings, industrial facilities and institutions together with any groundwater, surface water and stormwater that may be present, whether treated or untreated, which is contributed into or permitted to enter the City sewage disposal works.

924.03 GENERAL DISCHARGE PROHIBITIONS.

No person shall discharge, or cause to be discharged, any of the following described water or wastes to any public sewer:

- (a) Pollutants which create a fire or explosion hazard in the POTW including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or sixty degrees Centigrade using the test method specified in 40 CFR 261.21.
- (b) No person shall discharge, or cause to be discharged, any of the following described water or wastes to any public sewer: pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems.

(c) Any solids, greases, slurries or viscous material of such character or in such quantity that may cause an obstruction to the flow in the sewer or otherwise interfere with the

proper functioning of the sewage disposal works.

(d) Any toxic substances, chemical elements or compounds in quantities sufficient to impair the operation or efficiency of the sewage treatment plant or that will pass through the sewage treatment plant and cause the effluent thereof to exceed NPDES permit limits, or otherwise interfere with the effective and final disposal of sludge removed or separated

by the sewage treatment plant. This includes but is not necessarily limited to the substances and respective limitations listed in Section 924.04.

- (e) Any liquids having a pH lower than 6.0 or higher than 9.0, or having any corrosive property capable of causing damage or hazard to structures, equipment or personnel of the sewage disposal works.
- (f) Any wastewater having a temperature which will inhibit biological activity at the sewage treatment plant resulting in interference; but in no case, wastewater with a temperature at the introduction into the treatment plant which exceeds forty degrees Centigrade (104 degrees Fahrenheit).
- (g) Any slug release, which will mean any pollutant, including oxygen-demanding pollutants (BOD, etc.) released in such volume or strength as to cause interference to the sewage treatment plant.
- (h) Any wastewater containing any radioactive wastes or isotopes of such halflife or concentration which exceeds limits established by the City in compliance with applicable state or federal regulations.
- (i) Any substance with objectionable color not removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions.
- (i) Discharges of petroleum oil, nonbiodegradable cutting oil or products of mineral oil origin are prohibited in amounts that can pass through or cause interference.

924.04 SPECIFIC POLLUTANT LIMITATIONS.

(a) Toxic Pollutant Limitations. No person shall discharge or cause to be discharged into a public sewer, wastes which contain any of the pollutants contained in the following list of toxic pollutants unless the person is issued orders by the Superintendent which allow the discharge of such pollutants. In the absence of such specific orders, no person shall discharge any of the following toxic pollutants except as such pollutants may occur and only in the concentrations such pollutants may occur in the water supply to their premises. Discharge of such pollutants allowed by orders shall not exceed the following maximum daily or monthly average concentrations:

Pollutant	Daily Max
Cadmium (total)	1.9500 Mg/l
Chromium (total)	1.5000 Mg/l
Chromium (hex)	1.4000 Mg/l
Copper	0.830 Mg/l
Lead	0.890 Mg/l
Mercury	0.0035 Mg/l
Nickel	1.8000 Mg/l
Silver	1.2000 Mg/l
Zinc	1.2100 Mg/l
Antimony	0.3290 Mg/l
Cyanide (free)	0.3350 Mg/l
Selenium	1.4700 Mg/l
Arsenic	0.200 Mg/l
Molybdenum*	0.699 Mg/l

*As to Alcan Aluminum Corporation only, the limit for Molybdenum is six (6) pounds per day. (Ord. 11784/04. Passed 7-28-04.)

(b) Compatible Pollutant Limitation. No wastewater shall be discharged which exceeds the maximum daily concentration established for the following compatible pollutants without permission from the Superintendent and payment of the appropriate surcharge:

Pollutant	Maximum Daily
	Concentration (ppm)
BOD	200
COD	600
Ammonia nitrogen	35
Oil and grease (Freon soluble)	100
Phosphate (as P)	15
Solids (total suspended)	250
Solids (total dissolved)	1500
PH	Within the range of 6 to 9 at all times

924.05 DILUTION.

No discharger shall increase the use of potable or process water for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the standards set forth in this chapter.

924.06 NATIONAL CATEGORICAL PRETREATMENT STANDARDS.

National Categorical Pretreatment Standards as promulgated by the U.S. Environmental Protection Agency (EPA) pursuant to the Act shall be met by all dischargers of the regulated industrial categories. In any instances in which the categorical pretreatment standards are more stringent than limitations established in this chapter, the categorical pretreatment standards shall apply.

When the limits in a categorical pretreatment standard are expressed only in terms of mass of pollutant per unit of production, the City may convert the limits to equivalent limitations expressed either as mass or pollutant discharged per day of effluent concentration for purposes of calculating effluent limitations applicable to individual industrial users per 40 CFR 403.6 (C) (2).

An application for modification of the National Categorical Pretreatment Standards prepared in accordance with 40 CFR 403.7 may be considered for submittal to the Regional Administrator by the City, when the sewage treatment plant achieves consistent removal of the pollutants. "Consistent removal" means the reduction in the amount of a pollutant or alteration of the nature of the pollutant by the sewage treatment plant to a less toxic or harmless state in the effluent provided that the plant meets the NPDES permit limits established for that pollutant and the sludge meets all applicable requirements for the preferred method of disposal.

924.07 RIGHT OF REVISION.

The City reserves the right to amend this chapter to provide for more or less stringent limitations or requirements on discharges to the sewage treatment plant where deemed necessary to comply with the objectives set forth in Section 924.01.

924.08 ACCIDENTAL DISCHARGES.

Dischargers shall immediately notify treatment plant personnel upon the accidental discharge of wastes in violation of this chapter, including slugloads and other discharges which could cause problems to the POTW, treatment processes and the receiving waters. The notification shall include location of discharge, date and time thereof, type of waste, concentration and volume and corrective actions.

This notification shall be followed, within fifteen days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrence.

Such notification shall not relieve dischargers of liability for any fines provided for in Section 924.99, or for any expense, loss or damage to the sewer system, treatment plant or treatment process, or for any fines imposed on the City on account thereof.

In order that employees of dischargers be informed of City requirements, dischargers shall make available to their employees copies of this chapter together with such other wastewater information and notices which may be furnished by the City from time to time directed toward more effective water pollution control. A notice shall be furnished and permanently posted on the discharger's bulletin board advising employees whom to call in case of an accidental discharge in violation of this chapter.

924.09 ACCIDENTAL DISCHARGE PREVENTIVE MEASURES.

Each discharger shall provide protection from accidental discharge of prohibited or regulated materials or substances established by this chapter. Any direct or indirect connection or entry point for persistent or deleterious wastes to the discharger's plumbing or drainage system shall be eliminated. Where such action is impractical or unreasonable, the discharger shall appropriately label such entry points to warn against discharge of such wastes in violation of this chapter. Where necessary, facilities to prevent accidental discharge of prohibited material shall be provided and maintained at the discharger's expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the Superintendent for review and shall be approved by the Superintendent before construction of the facility. Review and approval of such plans and operating procedures shall not relieve the discharger from the responsibility to modify this facility as necessary to meet the requirements of this chapter.

924.10 OPERATING UPSETS.

Any discharger which experiences an upset in operations which places the discharger in a temporary state of noncompliance with this chapter shall inform the Superintendent thereof within twenty-four hours of first awareness of the commencement of the upset. Where such information is given orally, a written follow-up report thereof shall be filed by the discharger with the Superintendent within five days. The report shall specify:

- (a) Description of the upset, the cause thereof and the upset's impact on a discharger's compliance status.
- (b) Duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur.
- (c) All steps taken or to be taken to reduce, eliminate and prevent recurrence of such upset or other conditions of noncompliance.

A documented and verified bona-fide operating upset shall be an affirmative defense to any enforcement action brought by the City against a discharger for any noncompliance with the chapter, which arises out of violations alleged to have occurred during the period of the upset.

924.11 CONTROL OF ADMISSIBLE WASTES.

- (a) No person shall discharge sewage or industrial wastes to any sewer within the jurisdiction of the City and/or to the sewage treatment plant without having first complied with the terms of this chapter, including any subsequent compliance schedules that may be required should additional pretreatment and/or operation and maintenance be necessary.
- (b) Within ninety days after passage of this chapter, existing dischargers of industrial wastes to a public sewer who have not previously done so shall prepare and file with the City a report that shall include pertinent data relating to the quantity and characteristics of the wastes discharged to the sewage disposal works. Should a discharger desire to expand or change his operations which will increase or change the amount or nature of pollutants in the discharge at any time, or after filing such report, he shall be responsible for preparing and filing another report which reflects these changes prior to changing his operations.
- (c) Similarly, each person moving into an existing location connected to a public sewer or each person desiring to make a new connection to a public sewer for the purpose of discharging industrial wastes shall prepare and file with the City a report that shall include actual or predicted data relating to the quantity and characteristics of the waste to be discharged. Such report shall be filed prior to moving into an existing location or prior to making any connection to the public sewer.
- (d) Such report shall be made on written forms provided by the City and shall include:
- (1) Disclosure of name, address and location of the discharger;
- (2) Disclosure of Standard Industrial Classification (SIC) number according to the Standard Industrial Classification Manual, Bureau of the Budget, 1972, as amended;
- (3) Disclosure of wastewater constituents and characteristics including but not limited to those mentioned in this chapter, as determined by bona-fide chemical and biological analyses;
- (4) Disclosure of time and duration of discharges;
- (5) Disclosure of average daily flow rates, in gallons per day, including seasonal variations. All flows shall be measured unless other verifiable techniques are approved by the Superintendent due to cost or nonfeasibility;
- (6) Disclosure of site plans, floor plans, mechanical and plumbing plans and details to show all sewers, sewer connections, inspection manholes, sampling chambers and appurtenances by size, location and elevation;
- (7) Description of activities, facilities and plant processes on the premises including all material which are or may be discharged to the sewage disposal works;
- (8) Disclosure of the nature and concentration of any pollutants or materials prohibited by this chapter in the discharge, together with a statement regarding whether or not compliance is being achieved with this chapter on a consistent basis and if not, whether

additional operation and maintenance activities and/or additional pretreatment is required for the discharger to comply with this chapter;

- (9) Where additional pretreatment and/or operation and maintenance (O and M) activities will be required to comply with this chapter, the discharger shall provide a declaration of the shortest schedule by which the discharger will provide such additional pretreatment or O and M according to the conditions in Section 924.13;
- (10) Disclosure of each product produced by type, amount, process and rate of production;
- (11) Disclosure of the type and amount of raw materials utilized;
- (12) Signatory requirements: This report shall include the following certification statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Additionally, this report shall be signed by:

- A. A president, secretary, treasurer or vice president of a corporation, or;
- B. A general partner or proprietor if the industrial user is a partnership or sole proprietorship respectively, or;
- C. A duly authorized representative of the above if the authorization is previously made in writing to the Superintendent.

The Superintendent shall evaluate the complete report and data furnished by the discharger and may require additional information. Within thirty days after full evaluation and acceptance of the data furnished, the Superintendent shall notify the discharger of the City's acceptance thereof.

Should the industrial user fall under a categorical pretreatment standard, the discharger shall be classified as an existing or new source. If the facility is classified as a new source, they shall install and start up pretreatment technology prior to discharge and achieve compliance with the shortest time feasible, not to exceed ninety days after commencement of discharge.

924.12 STANDARDS MODIFICATION.

The City reserves the right to amend this chapter and the terms and conditions hereof in order to assure compliance with applicable laws and regulations. Within nine months of the promulgation of a National Categorical Pretreatment Standard, this chapter shall be amended to require compliance by dischargers with such standards within the time frame prescribed by such standards. All National Categorical Pretreatment Standards adopted after the promulgation of this chapter shall be adopted by the City as part of this chapter. Any discharger subject to a National Categorical Pretreatment Standard shall submit to the City within 180 days after the promulgation of an applicable

National Categorical Pretreatment Standard, the additional information required by Section 924.11 (d)(8) and (9). The discharger shall be informed of any proposed changes in the chapter at least thirty days prior to the effective date of the change. Any changes or new conditions in the chapter shall include a reasonable time schedule for compliance.

924.13 ISSUANCE OF ORDERS.

The Superintendent may issue orders to any industrial user to insure compliance with any requirements under this chapter including applicable National Categorical Pretreatment Standards, other discharge limits and reporting requirements. Such orders shall be in the form of a directive signed by the Superintendent and may include but shall not be limited to a list of pollutants to be monitored, location of sampling points, type of sample, frequency of sampling and compliance schedules to meet discharge limits.

(a) Compliance Schedules. When in the opinion of the Director, it becomes necessary for industrial users to install technology or provide additional operation and maintenance (O and M) to meet any condition of this chapter or applicable administrative order, the Director shall require the development of the shortest schedule by which the

industrial user will provide this additional technology or O and M.

(b) Periodic Compliance Reports. All industrial users shall submit periodic compliance reports indicating the nature and concentration of pollutants in their discharge. The frequency of reporting shall be as prescribed in the industrial user's administrative orders.

Results of sampling above the minimum required shall also be reported if analyses were conducted according to the methodology in Section 924.16. Where the results of self-monitoring indicates a violation of pretreatment standards, the industrial user shall notify the Director within twenty-four hours of becoming aware of the violation. The user shall also resample for the pollutant(s) in violation and report the results of resampling within thirty days of becoming aware of the initial violation.

These parts shall include the certification statement and shall be signed by an

authorized representative of the discharger as defined in Section 924.11(d)(12)

924.14 MONITORING FACILITIES.

Each discharger shall provide and operate at the discharger's own expense a monitoring facility to allow inspection, sampling and flow measurement of each sewer discharge to the sewage disposal works. Each monitoring facility shall be situated on the discharger's premises, except where such a location would be impractical or cause undue hardship on the discharger, the City may concur with the facility being constructed in the public street or sidewalk area providing that the facility is located so that it will not be obstructed by landscaping or parked vehicles. There shall be ample room in or near such sampling facility to allow accurate sampling and preparation of samples for analysis. The facility, sampling and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the discharger.

All monitoring facilities shall be constructed and maintained in accordance with all applicable local construction standards and specifications.

924.15 INSPECTION AND SAMPLING.

- (a) The City may inspect the monitoring facilities of any discharger to determine compliance with the requirements of this chapter. The discharger shall allow the Superintendent or its representatives, upon presentation of credentials of identification, to enter upon the premises of the discharger at all reasonable hours, for the purposes of inspection, sampling or records examination. The City shall have the right to set up on the discharger's property such devices as are necessary to conduct sampling, inspection, compliance monitoring and/or metering operations.
- (1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events. Under no circumstances shall any increment exceed nine months.
- (2) Not later than fourteen days following each date in the schedule and the final date for compliance, the industrial user shall submit a progress report to the Director including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay and the steps being taken by the IU to return to the schedule established.
- (b) Final Compliance Report. Any industrial user subject to categorical pretreatment standards shall submit a report indicating whether the user has achieved compliance. This report is to be submitted to the Superintendent within ninety days following the date for final compliance with applicable categorical pretreatment standards or in the case of a new source discharger, following commencement of the introduction of wastewater into the POTW. The following information shall be included in this report:
- (1) Measured average daily and maximum flows of regulated process streams and other non-regulated streams.
- (2) Results of sampling and analysis regulated pollutants from each regulated process. For pH, cyanide, total phenols, oil and grease, sulfide and volatile organics a minimum of four grab samples shall be analyzed. For all other pollutants, a minimum of one twenty-four hour flow proportional composite sample shall be obtained. Samples should be taken immediately downstream of pretreatment facilities if such exist or immediately downstream of regulated processes if no pretreatment facilities exist. The samples shall be representative of daily operations.
- (3) For industrial users subject to equivalent mass or concentration limits established by the Superintendent, this report shall include a reasonable measure of the user's long-term production rate. For industrial users subject to production-based standards, this report shall include the user's actual production during the appropriate sampling period.
- (4) A statement indicating whether pretreatment standards are being met on a consistent basis, and if not, a statement indicating whether additional pretreatment and/or operation and maintenance will be required to meet the pretreatment standards in accordance with Section 924.13.

This report shall include the certification statement and shall be signed by an authorized representative of the discharger as defined in Section 924.11(d)(12).

924.16 ANALYSES OF WASTES.

Laboratory procedures used in the examination of industrial wastes shall be those set forth in 40 CFR Part 136. However, alternate methods for certain analyses of industrial wastes may be used subject to mutual agreement between the City and the person.

Determination of the character and concentration of the industrial wastes performed by a discharger in compliance with his self-monitoring obligations shall be made by a qualified person or testing laboratory acceptable to the City.

The person whose wastes are being tested by the City shall promptly reimburse the City for the taking of samples, the per diem rate in effect at that time for each day, or part thereof, that such samples are taken. The fee for analyzing such samples shall be reimbursed in accordance with the fee schedule in effect at the time.

924.17 CONFIDENTIAL INFORMATION.

All information and data acquired by any means authorized in this chapter shall be available to the public or any other governmental agency without restriction except as hereinafter provided for.

Information and data may be deemed confidential by the City upon written request by any person for confidentiality, provided, however, the person is able to demonstrate to the satisfaction of the Superintendent that the release or publication of such information would divulge information, methods, processes or other trade secrets which may jeopardize the applicant's competitive position.

Information, data or material deemed confidential shall not be available for public inspection but shall be available to any governmental agency for studies and/or judicial review provided that such confidential information shall not be provided to anyone until and unless adequate notification is given to the applicant.

All records containing confidential material shall be stored in locked files.

Wastewater characteristics and constituents shall not be considered as confidential information.

924.18 RECORDS RETENTION.

All dischargers subject to this chapter shall retain and preserve for no less than three years, any records, books, documents, memoranda, reports, correspondence and any and all summaries thereof, relating to monitoring, sampling and chemical analyses made by or in behalf of a discharger in connection with its discharge. All records which pertain to matters that are the subject of enforcement or litigation activities brought by the City pursuant hereto shall be retained and preserved by the discharger until all enforcement activities have been concluded and all periods of limitation with respect to any and all appeals have expired.

924.19 EMERGENCY SUSPENSION OF SERVICE.

The City may for good cause shown suspend the wastewater treatment service to a discharger, without issuing a notice of violation, when it appears to the City that an actual or threatened discharge presents or threatens an imminent or substantial danger to the health or welfare of persons. Any discharger notified of the suspension of the City's wastewater treatment service shall immediately cease all discharges. In the event of

failure of the discharger to comply voluntarily with the suspension order, the City shall have the right to remove or close sewer connections and enter upon the property for accomplishing such purposes. The Superintendent shall reinstate the wastewater treatment service pending proof by the discharger of the elimination of the noncomplying discharge or conditions creating the threat of imminent or substantial danger as set forth above.

924.20 NOTIFICATION OF VIOLATION.

Whenever the City finds that any discharger has engaged in conduct which violates any provision of this chapter except for emergency suspension (Section 924.19) and falsifying information (Section 924.99(c)), the City shall serve or cause to be served upon such discharger, a written notice by certified or registered mail, return receipt requested, stating the nature of the alleged violation. Service shall be made on any authorized representative of the discharger. The discharger shall respond personally or in writing to the City within the time period specified in the notice advising of its position with respect to the allegations. Thereafter, the parties shall meet to ascertain the veracity of the allegations and where necessary, establish a plan for the satisfactory correction thereof.

924.21 SHOW CAUSE HEARING.

Where the violation referred to in Section 924.20 is not corrected by timely compliance, the City may order any discharger which causes or allows conduct prohibited by Section 924.20 to show cause before the Safety-Service Director or his duly authorized representative why termination of wastewater treatment service should not be taken. A written notice shall be served on the discharger by certified or registered mail, return receipt requested, specifying the time and place of a hearing to be held by the Safety-Service Director or designee regarding the violation, the reasons why the enforcement action is to be taken, the proposed enforcement action and directing the discharger to show cause why the proposed enforcement action should not be taken. The notice of the hearing shall be served no less than ten days before the hearing. Service may be made on any agent, officer or authorized representative of a discharger. The proceedings at the hearing shall be considered by the Safety-Service Director who shall then enter appropriate orders with respect to the alleged improper activities of the discharger.

924.22 REVOCATION OF SERVICES.

In accordance with the procedures specified in Sections 924.20 and 924.21, the City shall have the authority to terminate wastewater treatment services to any discharger who fails to correct a violation of this chapter within the time period specified after being issued a notice of violation and given the opportunity to show cause why such termination should not be taken.

924.23 CONTROLLED DISCHARGE OF ANY TRUCKED OR HAULED WASTE.

No person shall access the sewer system or POTW for any activity including discharge of hauled septic or industrial wastes except at locations and at times as

designated by the Director. Any removal of manhole lids, or other access to the sewer system for the purpose of discharging wastes at times and/or locations other than those designated by the Director, or without the expressed permission of the Director, shall be considered a violation and shall be subject to enforcement action including fines and penalties allowed under this chapter.

924.24 JUDICIAL PROCEEDINGS.

Following the entry of any order by the City with respect to the conduct of a discharger contrary to the provisions of Section 924.19, the Law Director may, following the authorization of such action by the City, commence an action for appropriate legal and/or equitable relief in the Court of Common Pleas.

924.25 ANNUAL PUBLICATION.

Annually, the City shall publish in the local newspaper a list of all industrial users, which at any time during the previous twelve months were in significant noncompliance with applicable pretreatment standards or requirements.

924.26 RIGHT OF APPEAL.

Any discharger or any interested party shall have the right to request in writing an interpretation or ruling by the City on any matter covered by this chapter and shall be entitled to a prompt written reply. In the event that such inquiry is by a discharger and deals with matters of performance or compliance with this chapter for which enforcement activity relating to an alleged violation is the subject, receipt of a discharger's request shall stay all enforcement proceedings pending receipt of the aforesaid written reply. Appeal of the final judicial order entered pursuant to this chapter may be taken in accordance with applicable local law.

924.99 PENALTY.

(a) Civil Penalties. Any discharger who violates an order of the City or fails to comply with any provision of this chapter shall be subject to the imposition of a civil penalty. The City may assess these penalties in accordance with the tier system below. Such civil penalties shall be determined by the City based on the severity of the violation and the number of times the discharger was in violation for the same limit.

The tier system is as follows:

- Tier 1 One thousand dollars (\$1,000) per violation; each day constitutes a separate violation.
- Tier 2 Five thousand dollars (\$5,000) per violation; each day constitutes a separate violation
- Tier 3 Ten thousand dollars (\$10,000) per violation; each day constitutes a separate violation
- (b) Criminal Penalties. A discharger's willful or negligent violation of this chapter will be subject to criminal prosecution when the City of Warren has evidence of noncompliance which shows criminal intent, and such discharger shall be punished by a fine of not more than one thousand dollars (\$1,000) or by imprisonment for not more than

six months, or by both. Each day in which any such violation continues shall constitute a separate offense.

(c) Falsifying Information. Any person who knowingly makes false statements, representations or certifications in any application, record, report, plan or other document filed or required to be maintained pursuant to this chapter, or wastewater contribution permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this chapter, shall be punished by a fine of not more than one thousand dollars (\$1,000) or by imprisonment for not more than six months, or by both.

(d) Administrative Penalties. The City may assess penalties ranging in the amount of one hundred dollars (\$100.00) to three hundred dollars (\$300.00) per day upon any sewer user who fails to comply with the numerical value or administrative orders issued by the City or other regulatory agencies. Such administrative penalties shall be determined by the City based on the severity of the violation and the range of response (Tier) called for in the amended pretreatment program, enforcement response program.

The Tier structure called for in the enforcement response program administrative penalties shall be as follows:

Tier 1 One hundred dollars (\$100.00) per violation; each day constitutes a separate violation.

Tier 2 Two hundred dollars (\$200.00) per day violation; each day constitutes a separate violation.

Tier 3 Three hundred dollars (\$300.00) per day violation; each day constitutes a separate violation.

Note: In addition to the administrative penalties stated herein, surcharges may be imposed upon violating dischargers. As stated in Section 925.03(d), such surcharges are intended to recover the additional costs associated with treating extra strength discharges and are not penalties.

924.01 PURPOSE AND POLICY.

This chapter sets forth uniform requirements for dischargers into the City sewage collection and treatment systems, and enables the City to protect public health and welfare in conformity with all applicable local, state and federal laws including the Clean Water Act (33 U.S.C. 1251 et seq) and the General Pretreatment Regulations (40 CFR Part 403)..

The objectives of this chapter are:

- (a) To prevent the introduction of pollutants into the sewage treatment plant which will interfere with the normal operation of the system or contaminate the resulting municipal sludge;
- (b) To prevent the introduction of pollutants into the sewage treatment plant which do not receive adequate treatment, and which will pass through the system into receiving waters or the atmosphere or otherwise be incompatible with the system;
- (c) To improve the opportunity to recycle and reclaim wastewater and sludge from the system;
- (d) To protect both Publicly Owned Treatment Works personnel who may be affected by wastewater and sludge in the course of their employment and the general public;
- (e) To provide for fees for excess strength of wastewater discharged to the POTW;
- (f) To enable the Warren Water Pollution Control facility to comply with its NPDES Permit conditions, sludge use and disposal requirements and any other Federal or State laws to which the facility is subject.

This chapter shall apply to all industrial and/or any significant users of the Warren WPC. The ordinance authorizes the issuance of wastewater discharge permits; authorizes monitoring, compliance and enforcement activities; establishes administrative review and enforcement procedures, requires industrial user reporting, and provides for fees for excess strength of waste discharged to the POTW.

(Ord. 10235/91. Passed 3-27-91.)

924.02 DEFINITIONS.

As used in this chapter, the following words and phrases shall have the following meanings:

- (1) "Act" means the Federal Water Pollution Control Act Amendments of 1972, Public Law 92-500, and any amendments thereto; as well as any guidelines, limitations and standards promulgated by the U.S. Environmental Protection Agency pursuant to the Act.
- (2) "Approval Authority" means the State of Ohio Environmental Protection Agency
- (3) "Authorized or Duly Authorized Representative of the User"
 - (1) If the User is a corporation:
 - (a) The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or
 - (b) The manager of one or more manufacturing, production, or operation facilities, provided the manager:
 - (i) Is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures, to assure long-term environmental compliance with environmental laws and regulations;
 - (ii) Can ensure that the necessary systems are established or that the necessary actions are taken to gather complete and accurate information for control mechanism requirements; and
 - (iii)Is assigned or delegated the authority to sign documents in accordance with corporate procedures.
 - (2) A general partner or proprietor if the industrial user submitting the report is a partnership or sole proprietorship, respectively.
 - (3) A member or manager if the industrial user submitting the report is a limited liability company;
 - (4) A duly authorized representative of the individual designated in paragraph (c)(1), (c)(2) or (c)(3) of this rule if:
 - (a) The authorization is made in writing by the individual described in paragraph (c)(1), (c)(2) or (c)(3) of this rule;
 - (b) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the industrial discharge originates, such as the position of plant manager, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
 - (c) The written authorization is submitted to the control authority.
 - (5) If an authorization under paragraph (c)(4) of this rule is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (c)(4) of this rule shall be submitted to the control authority prior to or together with any reports to be signed by an authorized representative.

- (4) "Best Management Practices or BMPs" means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions listed in OAC 3745-3-04. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.
- (5) "Biochemical oxygen demand" (BOD) means the quantity of oxygen utilized in the biochemical oxidation of organic matter expressed in parts per million by weight under standard laboratory conditions for five days at a temperature of twenty degrees Centigrade. The laboratory determinations shall be made in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (5) "Bypass" means the intentional diversion of wastes from any portion of a treatment or pretreatment facility.
- (6) "Categorical Industrial User" means an Industrial User subject to a categorical Pretreatment Standard or categorical Standard.
- (7) "CFR" means the Code of Federal Regulations.
- (8) "Chemical oxygen demand" (COD) means the quantity of oxygen utilized in the chemical oxidation of organic matter expressed in parts per million by weight, in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (9) "City" means the City of Warren, Ohio.
- (10) "Composite Sample" means a sample that is collected over time, formed either by continuous sampling or by mixing discrete samples. The sample may be composited either as a time composite sample, composed of discrete sample aliquots collected in one container at constant time intervals providing representative samples irrespective of stream flow; or as a flow proportional composite sample, collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquots
- (11) "Control Authority" means The City.
- (12) "Cooling Water" means:
 - (1) Uncontaminated or Non-Contact Cooling Water: Water used for cooling purposes only which has no direct contact with any raw material, intermediate or final product and which does not contain a level of contaminants detectably higher than that of the intake water.
 - (2) Contaminated or Contact Cooling Water: Water used for cooling purposes only which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides, or by direct contact with process materials and/or wastewater.
- (13) "Daily maximum" means the maximum allowable discharge of a pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day
- (14) "Director" means the Director of the City's Water Pollution Control Department or his duly authorized representative.

- (15) "Discharger" means any nonresidential user who discharges an effluent into the City sewage disposal works by means of pipes, conduits, pumping stations, force mains, constructed drainage ditches, surface water intercepting ditches and all constructed devices and appliances appurtenant thereto.
- (16) "Domestic wastewater" means liquid wastes from the non-commercial preparation, cooking and handling of food or containing human excrement and similar matter from the sanitary conveniences of dwellings, commercial buildings, industrial facilities, and institutions
- (17) "Environmental Protection Agency" (EPA) means the U.S. Environmental Protection Agency, or where appropriate "Environmental Protection Agency" may also be used as a designation for the Administrator or other duly authorized official of such Agency.
- (18) "Grab sample" means an individual sample collected in less than 15 minutes, without regard for flow or time
- (19) "Ground garbage" means the residue from the preparation, cooking and dispensing of food that has been shredded to such degree that all particles will be carried freely in suspension under the flow conditions normally prevailing in public sewers with no particle greater than one-half inch in any dimension.
- (20) "Industrial user/discharger" means the source of indirect discharge to the POTW from any nondomestic source regulated under Section 307(b), (c) or (d) of the Federal Water Pollution Control Act.
- (21) "Industrial waste" means any solid, liquid or gaseous substance discharged, permitted to flow or escaping from any industrial manufacturing, commercial or business establishment or process, or from the development, recovery or processing of any natural resource.
- (22) "Interference" means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:
 - A. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
 - B. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of SWDA), the Clean Air Act, the Toxic Substances Control Act and the Marine Protection, Research and Sanctuaries Act.
- (23) "Local Limit" means specific discharge limits developed and enforced by the Control Authority upon industrial or commercial facilities to implement the general and specific discharge prohibitions listed in 40 CFR 403.5(a)(1) and (b).
- (24) "mg/L" means milligrams per liter

- (25) "Mid-tier categorical user" is a significant industrial user subject to categorical pretreatment standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N that the control authority may determine is subject to a reduction in the user's reporting requirement and the control authority's monitoring and inspection requirements, upon satisfaction of the conditions following:
 - (1) The industrial user's total categorical wastewater flow does not exceed any of the following:
 - (a) 0.01 percent of the design dry weather hydraulic capacity of the POTW, or five thousand gallons per day, whichever is smaller, as measured by a continuous effluent flow monitoring device unless the industrial user discharges in batches;
 - (b) 0.01 percent of the design dry weather organic treatment capacity of the POTW; and
 - 0.01 percent of the maximum allowable headworks loading for any pollutant regulated by the applicable categorical pretreatment standards for which approved local limits were developed by the POTW
 - (2) The industrial user has not been in significant noncompliance, as defined in this ordinance, for any time in the past 2 years;
 - (3) The industrial user does not have daily flow rates, production levels, or pollutant levels that vary so significantly that decreasing the reporting requirement would result in data that are not representative of conditions occurring during the reporting period
- (26) "Monthly average" means the arithmetic mean of all daily discharges measured during a calendar month
- (27) "New source" means any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under Section 307(c) of the Act modified and defined for implementation in accordance with 40 CFR Section 403.3 paragraph (K) and Section 403.6 paragraph (B) provided that:
 - A. The building, structure, facility or installation is constructed at a site at which no other source is located; or
 - B. The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or
 - C. The production of wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source will be considered.
- (28) "National Categorical Pretreatment Standard" means any regulation containing pollutant discharge limits promulgated by the U.S. EPA in accordance with Section 307(b) and (c) of the Act (33 U.S.C. 1347) which applies to a specific category of industrial dischargers.

- (29) "National Pollutant Discharge Elimination System" (NPDES) permit means the permit issued to the City pursuant to Section 402 of the Act (33 U.S.C. 1342).
- (30) "Non-significant categorical industrial user" means an industrial user subject to 40 CFR chapter I, subchapter N that the control authority may determine is a non-significant categorical industrial user rather than a significant industrial user on a finding that the industrial user does not discharge more than 100 gallons per day (gpd) of total categorical wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater) and the following conditions are met:
 - (1) The industrial user has consistently complied with all applicable categorical pretreatment standards and requirements;
 - (2) The user submits an annual certification statement required in paragraph (J) of OAC 3745-3-06 together with any additional information necessary to support the certification statement;
 - (3) The user never discharges any untreated concentrated wastewater
- (31) "Oil and grease" means a group of substances with similar physical characteristics determined quantitatively on the basis of their common solubility in freon in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (32) "Parts per million" (ppm) means a weight-to-weight ratio; the parts-per-million value multiplied by the factor 8.345 is equivalent to pounds per million gallons of water. "Milligrams per liter" (mg/1) is a synonymous term.
- (33) "Pass through" means the discharge of pollutants through the POTW into navigable waters in quantities or concentrations which are a cause of or significantly contribute to a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).
- (34) "Person" means any and all persons, natural or artificial, including any individual, firm, company, municipal or private corporation, association, society, institution, enterprise, governmental agency or other entity.
- (35) "Pollutant" means the dredged spoil, solid waste, incinerator residue, wastewater, garbage, wastewater sludge, munition, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, commercial, domestic and agricultural waste discharged into water.
- (36) "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into the City sewage treatment plant. The reduction or alteration can be obtained by physical, chemical or biological processes, or process changes by other means, except as prohibited by 40 CFR Section 403.6 (d).
- (37) "Pretreatment requirement" means any substantive or procedural requirement related to pretreatment, other than a pretreatment standard imposed on an industrial users or POTW.
- (38) "Pretreatment standards" means Prohibited discharge standards, Categorical Pretreatment Standards and Local Limits.
- (39) "Publicly owned treatment works (POTW)" means a treatment works, as defined by section 212 of the Act, which is owned, leased or contracted to operate by a state or municipality. This definition includes any devices and/or systems used in the storage,

treatment, recycling and reclamation of sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances if they convey wastewater to a POTW treatment plant. The term also means the municipality which has jurisdiction over the discharges to and the discharges from such a treatment works.

- (40) "Public sewer" means a sewer provided by or subject to the jurisdiction of the City. "Public sewer" also includes sewers within or outside the City boundaries that serve one or more persons and ultimately discharge into the City sewer system even though those sewers may not have been constructed with City funds.
- (41) "pH" means the logarithm, base 10, of the reciprocal of the hydrogen ion concentration expressed in moles per liter. "pH" shall be determined in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (42) "Safety-Service Director" means the Safety-Service Director of the City or his duly authorized representative.
- (43) "Sewage" means the water-carried human, animal and household wastes in a public or private drain, and may include groundwater infiltration, surface drainage and industrial wastes.
- (44) "Sewage disposal works" means all facilities for collection, pumping, treating and disposing of sewage and industrial waste.
- (45) "Sewage treatment plant" means an assemblage of devices, structures and equipment for treatment of sewage and industrial waste.
- (46) "Sewer" means a pipe or conduit for conveying sewage or any other waste liquids, including storm, surface and groundwater drainage.
- (47) "Shall" means a mandatory requirement; "may" is permissible.
- (48) "Significant industrial user" (SIU) includes:
 - A. All categorical industrial users;
 - B. Any noncategorical industrial user which:
 - 1. Discharges 25,000 gallons per day or more of process water ("process water" includes sanitary, noncontact cooling and boiler blowdown wastewater); or
 - 2. Contributes a process wastewater which makes up five percent (5%) or more of the average dry weather hydraulic or organic (BOD, TSS, etc.) capacity of the treatment plant; or
 - 3. Has a reasonable potential, in the opinion of the Control or Approval Authority, to adversely affect the POTW (inhibition, pass through, sludge contamination or endangerment of POTW workers), except: the City may, at any time, on its own initiative or in response to a petition received from an industrial user, determine that such user should not be considered a Significant Industrial User.
- (49) "Significant noncompliance" (SNC) is a relative measure of industrial user noncompliance determined if the user's violations meet one or more of the following criteria:
 - A. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all of the measurements taken during a six-month period exceed (by any magnitude) a numeric pretreatment standard or requirement, including instantaneous limits for the same pollutant or

parameter;

- B. Technical review criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the numeric pretreatment standard or requirement, including instantaneous limits multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH);
- C. Any other violation of a pretreatment standard or requirement as defined by OAC 3745-03-01 that the Control Authority determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of POTW personnel or the general public);
- D. Any discharge of a pollutant that has caused imminent endangerment of human health, welfare or to the environment or has resulted in the POTW's exercise of emergency authority to halt or prevent such a discharge;
- E. Failure to meet, within ninety days after the schedule date, a compliance schedule milestone contained in a wastewater discharge permit or enforcement order for starting construction, completing construction or attaining final compliance;
- F. Failure to provide, within forty five days after the due date, required reports such a baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports and reports on compliance with compliance schedules;
- G. Failure to accurately report noncompliance;
- H. Any other violation or group of violations which the Director determines will or has adversely affected the operation or implementation of the City's pretreatment program.
- (50) "Sludge" means any solid or semisolid waste generated by a municipal, commercial or industrial wastewater treatment plant, water supply treatment plant or air pollution control facility or any other waste having similar characteristics and effects as defined in standards issued under Sections 402 and 405 of the Act and in the applicable requirements under Sections 2001, 3004 and 4004 of the Solid Waste Disposal Act (PL 94-580).
- (51) "Slug / Slugload / Slug Discharge" means any discharge of water, sewage or industrial waste which, in concentration of any given constituent or in quantity of flow, causes a violation of the prohibited discharge standards in Section 924.03 of this Ordinance. A Slug Discharge is any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge which has a reasonable potential to cause Interference or Pass Through, or in any other way violate the POTW's regulations, Local Limits or Permit conditions..
- (52) "Standard Industrial Classification (SIC) Manual" means the SIC Manual, 2972, Office of Management and Budget, as amended and supplemented.
- (53) "Standard Methods" means the current edition of Standard Methods for the Examination of Water and Wastewater as published by the American Public Health Association, American Water Works Association and Water Environment Federation.
- (54) "Surcharge" means the assessment, in addition to other applicable charges, which

is levied on those persons and/or industrial users whose wastewater is greater in strength than normal domestic sewage.

- (55) "Suspended solids" (SS) means solids that either float on the surface of, or are in suspension or will settle in water, sewage or industrial waste, and which are removable by a laboratory filtration device. Quantitative determination of suspended solids shall be made in accordance with procedures set forth in "Standard Methods" (See subsection (33)).
- (56) "Toxic pollutants" means any pollutant or combination of pollutants which is or can potentially be harmful to public health or the environment including those listed as toxic in regulations promulgated by the Administrator of the Environmental Protection Agency under the provisions of CWA 307(a) or other Acts.
- (57) "Upset" means an exceptional incident in which a discharger unintentionally and temporarily is in a state of noncompliance with the standards set forth in this chapter due to factors beyond the reasonable control of the discharger, and excluding noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack of preventive maintenance or careless or improper operation thereof.
- (58) "Wastewater" means the liquid and water-carried or domestic wastes from dwellings, commercial buildings, industrial facilities and institutions together with any groundwater, surface water and stormwater that may be present, whether treated or untreated, which is contributed into or permitted to enter the City's sanitary sewer system.

(Ord. 10235/91. Passed 3-27-91.)

924.03 GENERAL DISCHARGE PROHIBITIONS.

- (a) No user shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes Pass Through or Interference. These general prohibitions apply to all Users of the POTW whether or not they are subject to categorical Pretreatment Standards or any other National, State or local Pretreatment Standard or Requirement.
- (b) No person shall discharge, or cause to be discharged, any of the following described water or wastes to any public sewer:
 - (a) Pollutants which create a fire or explosion hazard in the POTW including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or sixty degrees Centigrade using the test method specified in 40 CFR 261.21.
 - (b) No person shall discharge, or cause to be discharged, any of the following described water or wastes to any public sewer: pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
 - (c) Any solids, greases, slurries or viscous material of such character or in such quantity that may cause an obstruction to the flow in the sewer or otherwise interfere with the proper functioning of the sewage disposal works.
 - (d) Any toxic substances, chemical elements or compounds in quantities sufficient to impair the operation or efficiency of the sewage treatment plant or that will pass through the sewage treatment plant and cause the effluent thereof to exceed NPDES permit limits, or otherwise interfere with the effective and final disposal of sludge removed or separated by the sewage treatment plant. This includes but is not necessarily limited to the substances and respective limitations listed in Section 924.04.
 - (e) Any liquids having a pH lower than 6.0 or higher than 9.0, or having any corrosive property capable of causing damage or hazard to structures, equipment or personnel of the sewage disposal works.
 - (f) Any wastewater having a temperature which will inhibit biological activity at the sewage treatment plant resulting in interference; but in no case, wastewater with a temperature at the introduction into the treatment plant which exceeds forty degrees Centigrade (104 degrees Fahrenheit).
 - (g) Any slug release, which will mean any pollutant, including oxygen-demanding pollutants (BOD, etc.) released in such volume or strength as to cause interference to the sewage treatment plant.
 - (h) Any wastewater containing any radioactive wastes or isotopes of such halflife or concentration which exceeds limits established by the City in compliance with applicable state or federal regulations.
 - (i) Any substance with objectionable color not removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions.
 - (j) Discharges of petroleum oil, nonbiodegradable cutting oil or products of mineral oil origin are prohibited in amounts that can pass through or cause interference.
 - (k) Noxious or malodorous solids, liquids or gases, which, either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair
 - (l) Garbage that has not been ground or comminuted to such a degree that all

particles will be carried freely in suspension under flow conditions normally prevailing in the public sewers, with no particle greater than one-half (1/2) inch in any dimension

- (m) Any unpolluted water including, but not limited to, storm water, surface water, roof runoff, Noncontact cooling water, which will increase the hydraulic load on the POTW unless specifically authorized by the City.
- (c) Nothing in this section shall be construed as preventing any special agreement or arrangement between the City and any user of the POTW whereby wastewater of unusual strength or character is discharged into the system. No agreement shall be made which violates any state or federal standards or requirements including categorical pretreatment standards (Ord. 10235/91. Passed 3-27-91.)

924.04 SPECIFIC POLLUTANT LIMITATIONS.

- (a) Local Limits The approved pretreatment program for the City of Warren sets wastewater discharge limitations for arsenic, cadmium, chromium, copper, cyanide, lead, mercury, molybdenum, nickel, selenium, silver, thallium and zinc for significant industrial users discharging to the City sewer system. Such limits shall be specified in the significant industrial users' waste discharge permit to be issued by the City. All other users of the POTW may not discharge above generally accepted domestic levels without receiving a wastewater discharge permit from the City. Discharge permits shall impose maximum discharge concentrations limits or mass based limits where appropriate. Local requirements and limitations on discharges to the POTW shall be met by all dischargers subject to those standards in any instance in which they are more stringent than federal or state requirements and limitations. DirectorDirector
- (b) <u>Compatible Pollutant Limitation</u>. No wastewater shall be discharged which exceeds the maximum daily concentration established for the following compatible pollutants without permission from the DirectorDirector and payment of the appropriate surcharge:

	Maximum Daily
Pollutant	Concentration (ppm)
BOD	200
COD	600
Ammonia nitrogen	35
Oil and grease (Freon soluble)	100
Phosphate (as P)	15
Solids (total suspended)	250
Solids (total dissolved)	1500
рН	Within the range of 6 to 9 at all times
(Ord. 10740/94. Passed 12-14-94.)	

924.05 DILUTION.

No discharger shall increase the use of potable or process water for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the standards set forth in this chapter. (Ord. 10235/91. Passed 3-27-91.)

924.06 NATIONAL CATEGORICAL PRETREATMENT STANDARDS.

National Categorical Pretreatment Standards as promulgated by the U.S. Environmental Protection Agency (EPA) pursuant to the Act shall be met by all dischargers of the regulated industrial categories. In any instances in which the categorical pretreatment standards are more stringent than limitations established in this chapter, the categorical pretreatment standards shall apply.

When the limits in a categorical pretreatment standard are expressed only in terms of mass of pollutant per unit of production, the City may convert the limits to equivalent limitations expressed either as mass or pollutant discharged per day of effluent concentration for purposes of calculating effluent limitations applicable to individual industrial users per 40 CFR 403.6 (C) (2).

An application for modification of the National Categorical Pretreatment Standards prepared in accordance with 40 CFR 403.7 may be considered for submittal to the Regional Administrator by the City, when the sewage treatment plant achieves consistent removal of the pollutants. "Consistent removal" means the reduction in the amount of a pollutant or alteration of the nature of the pollutant by the sewage treatment plant to a less toxic or harmless state in the effluent provided that the plant meets the NPDES permit limits established for that pollutant and the sludge meets all applicable requirements for the preferred method of disposal. (Ord. 10235/91, Passed 3-27-91.)

924.07 RIGHT OF REVISION.

The City reserves the right to amend this chapter to provide for more or less stringent limitations or requirements on discharges to the sewage treatment plant where deemed necessary to comply with the objectives set forth in Section 924.01. (Ord. 10235/91. Passed 3-27-91.)

924.08 ACCIDENTAL DISCHARGES.

Dischargers shall immediately notify treatment plant personnel upon the accidental discharge of wastes in violation of this chapter, including slugloads and other discharges which could cause problems to the POTW, treatment processes and the receiving waters. The notification shall include location of discharge, date and time thereof, type of waste, concentration and volume and corrective actions.

This notification shall be followed, within fifteen days of the date of occurrence, by a detailed

written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrence.

Such notification shall not relieve dischargers of liability for any fines provided for in Section 924.99, or for any expense, loss or damage to the sewer system, treatment plant or treatment process, or for any fines imposed on the City on account thereof.

In order that employees of dischargers be informed of City requirements, dischargers shall make available to their employees copies of this chapter together with such other wastewater information and notices which may be furnished by the City from time to time directed toward more effective water pollution control. A notice shall be furnished and permanently posted on the discharger's bulletin board advising employees whom to call in case of an accidental discharge in violation of this chapter.

(Ord. 10235/91. Passed 3-27-91.)

924.09 ACCIDENTAL DISCHARGE PREVENTIVE MEASURES.

- (a) Each discharger shall provide protection from accidental discharge of prohibited or regulated materials or substances established by this chapter. Any direct or indirect connection or entry point for persistent or deleterious wastes to the discharger's plumbing or drainage system shall be eliminated. Where such action is impractical or unreasonable, the discharger shall appropriately label such entry points to warn against discharge of such wastes in violation of this chapter.
- (b) Where necessary, facilities to prevent accidental discharge of prohibited material shall be provided and maintained at the discharger's expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the Director for review and shall be approved by the Director before construction of the facility. Review and approval of such plans and operating procedures shall not relieve the discharger from the responsibility to modify this facility as necessary to meet the requirements of this chapter.
- (c) The Directorr shall evaluate whether each industrial user needs a written accidental discharge/slug discharge control plan or other action to control Slug Discharges at least once per control mechanism cycle. The Director may require any User to develop, submit for approval, and implement such a plan or take such other action that may be necessary to control Slug Discharges. An accidental discharge/slug discharge control plan shall address, at a minimum, the following:
 - (1) Description of discharge practices, including non-routine batch discharges;
 - (2) Description of stored chemicals;
 - (3) Procedures for immediately notifying the Director and the POTW of any accidental or Slug Discharge, as required by this ordinance; and
 - (4) Procedures to prevent adverse impact from any accidental or Slug Discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants, including solvents, and/or measures and equipment for emergency response.

(Ord. 10235/91. Passed 3-27-91.)

924.10 OPERATING UPSETS.

Any discharger which experiences an upset in operations which places the discharger in a temporary state of noncompliance with this chapter shall inform the Director thereof within twenty-four hours of first awareness of the commencement of the upset. Where such information is given orally, a written follow-up report thereof shall be filed by the discharger with the Director within five days. The report shall specify:

- (a) Description of the upset, the cause thereof and the upset's impact on a discharger's compliance status.
- (b) Duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur.
- (c) All steps taken or to be taken to reduce, eliminate and prevent recurrence of such upset or other conditions of noncompliance.

A documented and verified bona-fide operating upset shall be an affirmative defense to any enforcement action brought by the City against a discharger for any noncompliance with the chapter which arises out of violations alleged to have occurred during the period of the upset. (Ord. 10235/91. Passed 3-27-91.)

924.11 CONTROL OF ADMISSIBLE WASTES.

- (a) No person shall discharge sewage or industrial wastes to any sewer within the jurisdiction of the City and/or to the sewage treatment plant without having first complied with the terms of this chapter, including any subsequent compliance schedules that may be required should additional pretreatment and/or operation and maintenance be necessary. If wastewaters containing any substances described in §924.03 and 924.04 of this chapter are discharged or proposed to be discharged into the sewer system of the City or to any sewer system tributary thereto, the City may:
 - (1) Prohibit the discharge of such wastewater;
 - (2) Require the person or industrial discharger to make modifications that will reduce or eliminate the discharge of such substance in conformity with this chapter;
 - (3) Require pretreatment, including storage facilities, or flow equalization necessary to reduce or eliminate the objectionable characteristics or substances to achieve compliance with all Categorical Pretreatment Standards, Local Limits and prohibitions set out in the ordinance;
 - (4) Require the person making, causing, or allowing the discharge to pay any additional cost or expense incurred for handling and treating excess loads imposed on the POTW;
 - (5) Take any other remedial action as may be deemed desirable or necessary to achieve the purpose of this chapter;
 - (6) Require the person responsible for the discharge or proposed discharge to apply for and obtain a waste discharge permit authorizing and limiting the discharge for specific pollutants.
- (b) Within ninety days after passage of this chapter, existing dischargers of industrial wastes to a public sewer who have not previously done so shall prepare and file with the City a report that shall include pertinent data relating to the quantity and characteristics of the wastes discharged to the sewage disposal works. Should a discharger desire to expand or change his operations which will increase or change the amount or nature of pollutants in the discharge at any time, or after filing such report, he shall be responsible for preparing and filing another

report which reflects these changes at least 30 days prior to changing his operations.

- (c) Similarly, each person moving into an existing location connected to a public sewer or each person desiring to make a new connection to a public sewer for the purpose of discharging industrial wastes shall prepare and file with the City a report that shall include actual or predicted data relating to the quantity and characteristics of the waste to be discharged. Such report shall be filed prior to moving into an existing location or prior to making any connection to the public sewer.
- (d) Such report shall be made on written forms provided by the City and shall include:
 - (1) Disclosure of name, address and location of the discharger, including the name of the operator and owner;
 - (2) Disclosure of Standard Industrial Classification (SIC) number according to the Standard Industrial Classification Manual, Bureau of the Budget, 1972, as amended and any other environmental control permits held by or for the facility;
 - (3) Description of Operations:

Disclosure of each product produced by type, amount, process and rate of production

Disclosure of site plans, floor plans, mechanical and plumbing plans and details to show all sewers, sewer connections, inspection manholes, sampling chambers and appurtenances by size, location and elevation

Disclosure of the type and amount of raw materials utilized

Description of activities, facilities and plant processes on the premises including all material which are or may be discharged to the sewage disposal works

Disclosure of time and duration of discharges

(4) Measurement of Pollutants: Disclosure of wastewater constituents and characteristics including but not limited to those mentioned in this chapter; The categorical Pretreatment Standards applicable to each regulated process and any new categorically regulated processes for Existing Sources.

The results of sampling and analysis identifying the nature and concentration, and/or mass, where required by the Standard or by [the Director], of regulated pollutants in the discharge from each regulated process.

Instantaneous, Daily Maximum, and long-term average concentrations, or mass, where required, shall be reported.

The sample shall be representative of daily operations and shall be analyzed in accordance with procedures contained in 40 CFR Part 136 and amendments thereto. Where the Standard requires compliance with a BMP or pollution prevention alternative, the User shall submit documentation as required by the Director or the applicable Standards to determine compliance with the Standard.

- (5) The location for monitoring all wastes covered by the permit. Disclosure of average daily and maximum daily flow rates, in gallons per day, including seasonal variations. All flows shall be measured unless other verifiable techniques are approved by the Director due to cost or nonfeasibility;
- (6) Disclosure of the nature and concentration of any pollutants or materials prohibited by this chapter in the discharge, together with a statement regarding whether or not compliance is being achieved with this chapter on a consistent basis and if not, whether additional operation and maintenance activities and/or additional

pretreatment is required for the discharger to comply with this chapter;

- (7) Where additional pretreatment and/or operation and maintenance (O and M) activities will be required to comply with this chapter, the discharger shall provide a declaration of the shortest schedule by which the discharger will provide such additional pretreatment or O and M according to the conditions in Section 924;
- (8) Signatory requirements: This report shall include the following certification statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Additionally, this report shall be signed by an Authorized Representative of the User as defined by 924.02.

The Director shall evaluate the complete report and data furnished by the discharger and may require additional information. Within thirty days after full evaluation and acceptance of the data furnished, the Director shall notify the discharger of the City's acceptance thereof.

Should the industrial user fall under a categorical pretreatment standard, the discharger shall be classified as an existing or new source. If the facility is classified as a new source, they shall install and start up pretreatment technology prior to discharge and achieve compliance with the shortest time feasible, not to exceed ninety days after commencement of discharge.

- (e) Where pretreatment or flow equalization prior to discharge into the POTW is required, plans, specifications, and other pertinent data or information relating to such pretreatment or flow-control facilities shall first be submitted to the City for review and approval. Such approval shall not exempt the discharger from compliance with any other applicable code, ordinance, rule, regulation or order of any governmental authority. Any subsequent alterations or additions to such pretreatment or flow-control facilities shall not be made without due notice to and prior approval of the city.
- (f) If pretreatment or control of waste flows is required, such facilities shall be maintained in good working order and operated as efficiently as possible by the owner or operator at his or her own cost and expense, subject to the requirements of these rules and regulations and all other applicable codes, ordinances and laws.
- (g) Whenever it shall be necessary, an authorized representative of the city, upon presentation of identification, may enter upon any property or premises at reasonable times for the purpose of copying any records required to be kept under the provisions of this chapter, inspecting any processes or equipment where wastewater is generated and discharged to the POTW, and sampling any discharge or wastewater to the POTW

- (h) If, for any reason, a person does not comply with or will not be able to comply with any prohibition or limitation in this chapter, the person responsible for such discharge shall immediately notify the Director so that corrective action may be taken to protect the POTW treatment plant. In addition, a written report addressed to the Director detailing the exact date, time, and cause of the accidental discharge, and the duration, quantity and characteristics of the discharge, shall be filed by the responsible person within five (5) days.
- (i) All industrial users are prohibited from bypassing any pretreatment facility. Pretreatment facilities are required to be operated at all times. However, if an industrial user knows in advance of the need for a bypass, it must give prior notice to the Director and POTW, at least ten days before the date on which the bypass is to occur. If the bypass is not anticipated, the industrial user must notify the Director and POTW orally within 24 hours of becoming aware of the bypass. This 24-hour notice must be followed within five (5) days with a written description of the bypass, its cause, duration (or, if it has not been corrected, how long it is expected to continue), and what has been done to rectify the situation.

(Ord. 10235/91. Passed 3-27-91.)

924.12 STANDARDS MODIFICATION.

The City reserves the right to amend this chapter and the terms and conditions hereof in order to assure compliance with applicable laws and regulations. Within nine months of the promulgation of a National Categorical Pretreatment Standard, this chapter shall be amended to require compliance by dischargers with such standards within the time frame prescribed by such standards. All National Categorical Pretreatment Standards adopted after the promulgation of this chapter shall be adopted by the City as part of this chapter. Any discharger subject to a National Categorical Pretreatment Standard shall submit to the City within 180 days after the promulgation of an applicable National Categorical Pretreatment Standard, the additional information required by Section 924.11. The discharger shall be informed of any proposed changes in the chapter at least thirty days prior to the effective date of the change. Any changes or new conditions in the chapter shall include a reasonable time schedule for compliance.

(Ord. 10235/91. Passed 3-27-91.)

924.13INDUSTRIAL DISCHARGE PERMIT SYSTEM

(A) Wastewater Discharge Permits: All significant industrial users proposing to connect to or discharge into any part of the POTW must first obtain a discharge permit. All existing significant industrial users connected to or discharging into any part of the POTW must obtain a wastewater discharge permit and pay any applicable fees within ninety (90) days from and after the effective date of this chapter. Incomplete or inaccurate applications will not be processed and will be returned to the User for revision. The Director may require Users to submit all or some of the following information as part of a permit application:

- (1) Identifying Information.
 - a. The name and address of the facility, including the name of the operator and owner.
 - b. Contact information, description of activities, facilities, and plant production processes on the premises;
- (2) Environmental Permits. A list of any environmental control permits held by or for the facility.
- (3) Description of Operations.
 - a. A brief description of the nature, average rate of production (including each product produced by type, amount, processes, and rate of production), and standard industrial classifications of the operation(s) carried out by such User. This description should include a schematic process diagram, which indicates points of discharge to the POTW from the regulated processes.
 - Types of wastes generated, and a list of all raw materials and chemicals used or stored at the facility which are, or could accidentally or intentionally be, discharged to the POTW;
 - c. Number and type of employees, hours of operation, and proposed or actual hours of operation;
 - d. Type and amount of raw materials processed (average and maximum per day);
 - e. Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation, and all points of discharge;
- (4) Time and duration of discharges;
- (5) The location for monitoring all wastes covered by the permit;
- (6) Flow Measurement. Information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from regulated process streams and other streams, as necessary, to allow use of the combined wastestream formula.
- (7) Measurement of Pollutants.
 - a. The categorical Pretreatment Standards applicable to each regulated process and any new categorically regulated processes for Existing Sources.
 - b. The results of sampling and analysis identifying the nature and concentration, and/or mass, where required by the Standard or by [the Director], of regulated pollutants in the discharge from each regulated process.
 - c. Instantaneous, Daily Maximum, and long-term average concentrations, or mass, where required, shall be reported.
 - d. The sample shall be representative of daily operations and shall be analyzed in accordance with procedures contained in 40 CFR Part 136 and amendments thereto. Where the Standard requires compliance with a BMP or pollution prevention alternative, the User shall submit documentation as required by the Director or the applicable Standards to determine compliance with the Standard.
 - e. Sampling must be performed in accordance with procedures set out in Section 921.08 of this ordinance.
- (8) Any requests for a monitoring waiver (or a renewal of an approved monitoring waiver) for a pollutant neither present nor expected to be present in the discharge

- based on Section 921.08.
- (9) Any other information as may be deemed necessary by Director to evaluate the permit application.
- (B) After evaluation and acceptance of the data furnished, the Director may issue a wastewater discharge permit subject to terms and conditions provided herein.
- (C) Permit Conditions: Wastewater discharge permits shall be expressly subject to all provisions of this chapter and all other state and federal laws and regulations, other local ordinances, and user charges and fees established by the City. Wastewater discharge permits shall be uniformly enforced in accordance with this chapter, and applicable state and federal requirements, laws and regulations. Permit conditions may include, but not be limited to the following:
 - (1) Limits on rate and time of discharge or requirements for flow equalization.
 - (2) Requirements for installations of inspection and sampling facilities, and specifications for monitoring programs.
 - (3) Requirements for maintaining and submitting technical reports and plant records relating to wastewater discharges.
 - (4) Limits on specific pollutants.
 - (5) Compliance schedules.
 - (6) Other conditions to comply with this chapter and other applicable state and federal laws, rules and regulations.
- (D) Wastewater Discharge Permit Contents: An individual wastewater discharge permit shall include such conditions as are deemed reasonably necessary by the Director to prevent Pass Through or Interference, protect the quality of the water body receiving the treatment plant's effluent, protect worker health and safety, facilitate sludge management and disposal, and protect against damage to the POTW. Individual wastewater discharge permits must contain:
 - A statement that indicates the wastewater discharge permit issuance date, expiration date and effective date;
 - (2) A statement that the wastewater discharge permit is nontransferable without prior notification to the City in accordance with this ordinance, and provisions for furnishing the new owner or operator with a copy of the existing wastewater discharge permit;
 - (3) Effluent limits, including Best Management Practices, based on applicable Pretreatment Standards;
 - (4) Self monitoring, sampling, reporting, notification, and record-keeping requirements. These requirements shall include an identification of pollutants (or best management practice) to be monitored, sampling location, sampling frequency, and sample type based on Federal, State, and local law.
 - (5) The process for seeking a waiver from monitoring for a pollutant neither present nor expected to be present in the Discharge in accordance with Section 921.08
 - (6) A statement of applicable civil and criminal penalties for violation of Pretreatment Standards and Requirements, and any applicable compliance schedule. Such schedule may not extend the time for compliance beyond that required by applicable Federal, State, or local law.
 - (7) Requirements to control Slug Discharge, if determined by the Director to be

necessary.

- (8) Any grant of the monitoring waiver by the Director must be included as a condition in the User's permit.
- (E) Duration of permits: Permits shall be issued for a specified time period, not to exceed five (5) years. A permit may be issued for a period of less than one year, and may be stated to expire on a specific date. The terms and conditions of the permit may be subject to modification and change by the Director during the life of the permit, as limitations or requirements are modified and changed. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.
- (F) Transfer of a Permit: Permits may be reassigned or transferred to a new owner and/or operator with prior approval of the Director. The permittee must give at least thirty (30 days advance written notice to the Director. The notice must include a written certification by the new owner/operator which states that the new owner has no immediate intent to change the facility's operations and processes; identifies the specific date on which the transfer is to occur; and acknowledges full responsibility for complying with the existing permit.
- (G) Termination of Permits: Wastewater discharge permits may be terminated for the following reasons:
 - (1) Falsifying self-monitoring reports.
 - (2) Tampering with monitoring equipment.
 - (3) Refusing to allow City personnel, or its authorized representative, timely access to the facility premises and records.
 - (4) Failure to meet effluent limitations and/or failure to comply with all pretreatment requirements.
 - (5) Failure to pay fines.
 - (6) Failure to pay sewer charges.
 - (7) Failure to meet compliance schedules.

The Director may issue orders to any industrial user to insure compliance with any requirements under this chapter including applicable National Categorical Pretreatment Standards, other discharge limits and reporting requirements. Such orders shall be in the form of a directive signed by the Director and may include but shall not be limited to a list of pollutants to be monitored, location of sampling points, type of sample, frequency of sampling and compliance schedules to meet discharge limits

- (a) <u>Compliance Schedules.</u> When in the opinion of the Director, it becomes necessary for industrial users to install technology or provide additional operation and maintenance (O and M) to meet any condition of this chapter or applicable administrative order, the Director shall require the development of the shortest schedule by which the industrial user will provide this additional technology or O and M.
- (b) <u>Periodic Compliance Reports.</u> All industrial users shall submit periodic compliance reports indicating the nature and concentration of pollutants in their discharge. The frequency of reporting shall be as prescribed in the industrial user's administrative orders.

Results of sampling above the minimum required shall also be reported if analyses were conducted according to the methodology in Section <u>924.16</u>. Where the results

of self-monitoring indicates a violation of pretreatment standards, the industrial user shall notify the Director within twenty-four hours of becoming aware of the violation. The user shall also resample for the pollutant(s) in violation and report the results of resampling within thirty days of becoming aware of the initial violation.

These parts shall include the certification statement and shall be signed by an authorized representative of the discharger as defined in Section <u>924.8</u> (Ord. 10235/91. Passed 3-27-91.)

924.14 MONITORING AND REPORTING REQUIREMENTS

(A) Discharge reports:

- (1) Baseline monitoring report: within 180 days after the effective date of a categorical pretreatment standard, existing industrial users subject to such categorical pretreatment standards and currently discharging to or scheduled to discharge to the POTW shall be required to submit to the City a baseline monitoring report (BMR), which contains the information listed below. New sources and sources that become industrial users after promulgation of an applicable categorical standard, shall be required to submit to the City a baseline monitoring report (BMR), which contains the information listed below at least 90 days prior to commencement of discharges. A New Source shall report the method of pretreatment it intends to use to meet applicable categorical Standards. A New Source also shall give estimates of its anticipated flow and quantity of pollutants to be discharged.
 - (a) Measurement of pollutants.
 - i. The User shall provide the information required in Section 924.13 A (7) (a) through (d).
 - ii. The User shall take a minimum of one representative sample to compile that data necessary to comply with the requirements of this paragraph.
 - iii. Samples should be taken immediately downstream from pretreatment facilities if such exist or immediately downstream from the regulated process if no pretreatment exists. If other wastewaters are mixed with the regulated wastewater prior to pretreatment the User should measure the flows and concentrations necessary to allow use of the combined wastestream formula in 40 CFR 403.6(e) to evaluate compliance with the Pretreatment Standards. Where an alternate concentration or mass limit has been calculated in accordance with 40 CFR 403.6(e), this adjusted limit along with supporting data shall be submitted to the Control Authority;
 - iv. The Director may allow the submission of a baseline report which utilizes only historical data so long as the data provides information sufficient to determine the need for industrial pretreatment measures;

- v. The baseline report shall indicate the time, date and place of sampling and methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected pollutant Discharges to the POTW.
- (c) Compliance Certification. A statement, reviewed by the User's Authorized Representative as defined in Section 924.02 and certified by a qualified professional, indicating whether Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the Pretreatment Standards and Requirements.
- (d) Compliance Schedule. If additional pretreatment and/or O&M will be required to meet the Pretreatment Standards, the shortest schedule by which the User will provide such additional pretreatment and/or O&M must be provided. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard.
- (e) Signature and Report Certification. All baseline monitoring reports must be certified in accordance with Section 924.11 d(8) of this ordinance and signed by an Authorized Representative as defined in Section 924.02.
- (2) Ninety Day Compliance Report: Within 90 days following the date for final compliance with applicable categorical pretreatment standards, or in the case of a new source, following commencement of the introduction of wastewater into the POTW, any industrial user subject to the pretreatment standards and requirements shall submit to the Director, a report containing the information described in 924.13A(6) and 924.14A(1)(a) of this ordinance. All compliance reports must be certified in accordance with 921.11d(8) and signed by an Authorized Representative as defined in Section 924.02 of this ordinance.
- (3) Periodic Compliance Reports: Any user subject to a pretreatment standard or requirement shall periodically submit to the City a report indicating the nature, concentration of pollutants in the discharge which are limited by pretreatment standards or requirements and the estimated average and maximum daily flows for the reporting period. In cases where the Pretreatment Standard requires compliance with a Best Management Practice (BMP), the user must submit documentation required by the Director or the Pretreatment Standard necessary to determine the compliance status of the User. Such reports shall be submitted according to the frequency prescribed in the industrial user's wastewater discharge permit.
 - (a) The City may authorize an Industrial User subject to a categorical Pretreatment Standard to forego sampling of a pollutant regulated by a categorical Pretreatment Standard if the Industrial User has demonstrated through sampling and other technical factors that the pollutant is neither present nor expected to be present in the Discharge, or is present only at background levels from intake water and without any increase in the pollutant

due to activities of the Industrial User. [40 CFR 403.12(e)(2)] This authorization is subject to the following conditions:

- i. The waiver may be authorized where a pollutant is determined to be present solely due to sanitary wastewater discharged from the facility provided that the sanitary wastewater is not regulated by an applicable categorical Standard and otherwise includes no process wastewater.
- ii. The monitoring waiver is valid only for the duration of the effective period of the individual wastewater discharge permit, but in no case longer than 5 years. The User must submit a new request for the waiver before the waiver can be granted for each subsequent individual wastewater discharge permit.
- iii. In making a demonstration that a pollutant is not present, the Industrial User must provide data from at least one sampling of the facility's process wastewater prior to any treatment present at the facility that is representative of all wastewater from all processes.
- iv. The request for a monitoring waiver must be signed in accordance with 924.14A(8).
- v. Non-detectable sample results may be used only as a demonstration that a pollutant is not present if the EPA approved method from 40 CFR Part 136 with the lowest minimum detection level for that pollutant was used in the analysis.
- vi. Any grant of the monitoring waiver by the Director must be included as a condition in the User's permit. The reasons supporting the waiver and any information submitted by the User in its request for the waiver must be maintained by the Director for 3 years after expiration of the waiver.
- vii. Upon approval of the monitoring waiver and revision of the User's permit by the Director, the Industrial User must certify on each report with the statement 924.14A(9) below, that there has been no increase in the pollutant in its wastestream due to activities of the Industrial User.
- viii. In the event that a waived pollutant is found to be present or is expected to be present because of changes that occur in the User's operations, the User must immediately: Comply with the monitoring requirements, or other more frequent monitoring requirements imposed by the Director, and notify the Director.
- ix. This provision does not supersede certification processes and requirements established in categorical Pretreatment Standards, except as otherwise specified in the categorical Pretreatment Standard.
- (4) If sampling performed by an industrial user indicates a violation, the user shall notify the Director within 24 hours of becoming aware of the violation. The industrial user shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Director within 30 days after becoming aware of the violation. The industrial user is not required to resample if:
 - a. The Director, or its authorized representative, samples the wastewater discharge of the industrial user at least once per month, or

- b. The Director, or its authorized representative, performs sampling at the industrial user between the time when the user performs its initial sampling and the time when the user receives the results of this sampling.
- (5) The reports required by this section of this chapter shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, which data is representative of conditions occurring during the reporting period.
- (6) If an industrial user monitors any pollutant more frequently than required by the City, the results of this monitoring shall be included in the periodic discharge monitoring report.
- (7) All sampling and analyses shall be performed in accordance with procedures contained in 40 CFR Part 136 and amendments thereto.
- (8) The reports required by this section shall be signed by:
 - a. A responsible corporate officer of the industrial user submitting the reports in a corporation. A responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of principal business function, or any other person who performs similar policy or decision making functions for the corporation or the manager of one or more manufacturing, production, or operation facilities, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. By a general partner or proprietor if the industrial user submitting the reports is a partnership or sole proprietorship;
 - c. By a duly authorized representative of the individuals described in paragraphs (a) and (b) above.
- (9) Certification: All reports and applications required to be filed under this section shall be signed under the following certification statement:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(B) Records and monitoring:

(1) All industrial users who discharge or propose to discharge wastewater to the POTW shall maintain such records of production and related factors effluent flows, and pollutant amounts or concentrations as are necessary to demonstrate compliance with the requirements of this chapter and any applicable state or federal pretreatment standards or requirements. All industrial users shall retain and preserve for no less than three years, any records, books, documents, memoranda, reports, correspondence, and any and all summaries thereof, relating

to monitoring sampling, and laboratory analyses made by or on behalf of an industrial user in connection with its discharge. All records which pertain to materials which are subject to administrative adjustment or any other enforcement or litigation activities brought by the City pursuant hereto shall be retained and preserved by the discharger until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

(2) Such records shall be made available upon request by the City.

- (3) The owner or operator of any premises or facility discharging industrial wastes into the system may be required to install at his or her own cost and expense suitable facilities to obtain accurate samples of wastewater flow into the POTW. Such facilities shall be maintained in proper working order and kept safe at all times.
- (4) When more than one user can discharge into a common sewer, the City may require installation of separate monitoring facilities for each user. When there is a significant difference in wastewater constituents and characteristics produced by different operations of a single user, the City may require that separate monitoring facilities be installed for each separate discharge.
- (5) Whether constructed on public or private property, the monitoring facilities shall be constructed in accordance with City requirements and all applicable construction on standards and specifications.

(Ord. 10235/91. Passed 3-27-91.)

924.15 INSPECTION AND SAMPLING.

- (a) The City may inspect the monitoring facilities of any discharger to determine compliance with the requirements of this chapter. The discharger shall allow the Director or its representatives, upon presentation of credentials of identification, to enter upon the premises of the discharger at all reasonable hours, for the purposes of inspection, sampling or records examination. The City shall have the right to set up on the discharger's property such devices as are necessary to conduct sampling, inspection, compliance monitoring and/or metering operations.
 - (1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events. Under no circumstances shall any increment exceed nine months.
 - (2) Not later than fourteen days following each date in the schedule and the final date for compliance, the industrial user shall submit a progress report to the Director including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay and the steps being taken by the IU to return to the schedule established.
- (b) <u>Final Compliance Report.</u> Any industrial user subject to categorical pretreatment standards shall submit a report indicating whether the user has achieved compliance. This report is to be submitted to the Director within ninety days following the date for final

compliance with applicable categorical pretreatment standards or in the case of a new source discharger, following commencement of the introduction of wastewater into the POTW. The following information shall be included in this report:

- (1) Measured average daily and maximum flows of regulated process streams and other nonregulated streams.
- (2) Results of sampling and analysis regulated pollutants from each regulated process. For pH, cyanide, total phenols, oil and grease, sulfide and volatile organics a minimum of four grab samples shall be analyzed. For all other pollutants, a minimum of one twenty-four hour flow proportional composite sample shall be obtained. Samples should be taken immediately downstream of pretreatment facilities if such exist or immediately downstream of regulated processes if no pretreatment facilities exist. The samples shall be representative of daily operations.
- (3) For industrial users subject to equivalent mass or concentration limits established by the Director, this report shall include a reasonable measure of the user's long-term production rate. For industrial users subject to production-based standards, this report shall include the user's actual production during the appropriate sampling period.
- (4) A statement indicating whether pretreatment standards are being met on a consistent basis, and if not, a statement indicating whether additional pretreatment and/or operation and maintenance will be required to meet the pretreatment standards in accordance with Section 924.13.

This report shall include the certification statement and shall be signed by an authorized representative of the discharger as defined in Section1(d)(12). (Ord. 10235/91. Passed 3-27-91.)

924.16 ANALYSES OF WASTES.

Laboratory procedures used in the examination of industrial wastes shall be those set forth in 40 CFR Part 136. However, alternate methods for certain analyses of industrial wastes may be used subject to mutual agreement between the City and the person.

Determination of the character and concentration of the industrial wastes performed by a discharger in compliance with his self-monitoring obligations shall be made by a qualified person or testing laboratory acceptable to the City.

The person whose wastes are being tested by the City shall promptly reimburse the City for the taking of samples, the per diem rate in effect at that time for each day, or part thereof, that such samples are taken. The fee for analyzing such samples shall be reimbursed in accordance with the fee schedule in effect at the time.

(Ord. 10235/91. Passed 3-27-91.)

924.17 CONFIDENTIAL INFORMATION.

All information and data acquired by any means authorized in this chapter shall be available to the public or any other governmental agency without restriction except as hereinafter provided

for.

Information and data may be deemed confidential by the City upon written request by any person for confidentiality, provided, however, the person is able to demonstrate to the satisfaction of the Director that the release or publication of such information would divulge information, methods, processes or other trade secrets which may jeopardize the applicant's competitive position.

Information, data or material deemed confidential shall not be available for public inspection but shall be available to any governmental agency for studies and/or judicial review provided that such confidential information shall not be provided to anyone until and unless adequate notification is given to the applicant.

All records containing confidential material shall be stored in locked files.

Wastewater characteristics and constituents shall not be considered as confidential information. (Ord. 10235/91. Passed 3-27-91.)

924.18 RECORDS RETENTION.

All dischargers subject to this chapter shall retain and preserve for no less than three years, any records, books, documents, memoranda, reports, correspondence and any and all summaries thereof, relating to monitoring, sampling and chemical analyses made by or in behalf of a discharger in connection with its discharge. All records which pertain to matters that are the subject of enforcement or litigation activities brought by the City pursuant hereto shall be retained and preserved by the discharger until all enforcement activities have been concluded and all periods of limitation with respect to any and all appeals have expired. (Ord. 10235/91. Passed 3-27-91.)

924.19 EMERGENCY SUSPENSION OF SERVICE.

The City may for good cause shown suspend the wastewater treatment service to a discharger, without issuing a notice of violation, when it appears to the City that an actual or threatened discharge presents or threatens an imminent or substantial danger to the health or welfare of persons. Any discharger notified of the suspension of the City's wastewater treatment service shall immediately cease all discharges. In the event of failure of the discharger to comply voluntarily with the suspension order, the City shall have the right to remove or close sewer connections and enter upon the property for accomplishing such purposes. The Director shall reinstate the wastewater treatment service pending proof by the discharger of the elimination of the noncomplying discharge or conditions creating the threat of imminent or substantial danger as set forth above.

(Ord. 10235/91. Passed 3-27-91.)

924.20 NOTIFICATION OF VIOLATION.

Whenever the City finds that any discharger has engaged in conduct which violates any provision of this chapter except for emergency suspension (Section 924.19) and falsifying information (Section 924.99(c)), the City shall serve or cause to be served upon such

discharger, a written notice by certified or registered mail, return receipt requested, stating the nature of the alleged violation. Service shall be made on any authorized representative of the discharger. The discharger shall respond personally or in writing to the City within the time period specified in the notice advising of its position with respect to the allegations. Thereafter, the parties shall meet to ascertain the veracity of the allegations and where necessary, establish a plan for the satisfactory correction thereof.

(Ord. 10235/91. Passed 3-27-91.)

924.21 SHOW CAUSE HEARING.

Where the violation referred to in Section <u>924.20</u> is not corrected by timely compliance, the City may order any discharger which causes or allows conduct prohibited by Section <u>924.20</u> to show cause before the Safety-Service Director or his duly authorized representative why termination of wastewater treatment service should not be taken. A written notice shall be served on the discharger by certified or registered mail, return receipt requested, specifying the time and place of a hearing to be held by the Safety-Service Director or designee regarding the violation, the reasons why the enforcement action is to be taken, the proposed enforcement action and directing the discharger to show cause why the proposed enforcement action should not be taken. The notice of the hearing shall be served no less than ten days before the hearing. Service may be made on any agent, officer or authorized representative of a discharger. The proceedings at the hearing shall be considered by the Safety-Service Director who shall then enter appropriate orders with respect to the alleged improper activities of the discharger. (Ord. 10235/91. Passed 3-27-91.)

924.22 REVOCATION OF SERVICES.

In accordance with the procedures specified in Sections <u>924.20</u> and 924.21, the City shall have the authority to terminate wastewater treatment services to any discharger who fails to correct a violation of this chapter within the time period specified after being issued a notice of violation and given the opportunity to show cause why such termination should not be taken. (Ord. 10235/91. Passed 3-27-91.)

924.23 CONTROLLED DISCHARGE OF ANY TRUCKED OR HAULED WASTE.

No person shall access the sewer system or POTW for any activity including discharge of hauled septic or industrial wastes except at locations and at times as designated by the Director. Any removal of manhole lids, or other access to the sewer system for the purpose of discharging wastes at times and/or locations other than those designated by the Director, or without the expressed permission of the Director, shall be considered a violation and shall be subject to enforcement action including fines and penalties allowed under this chapter. (Ord. 10235/91. Passed 3-27-91.)

924.24 JUDICIAL PROCEEDINGS.

Following the entry of any order by the City with respect to the conduct of a discharger contrary to the provisions of Section <u>924.19</u>, the Law Director may, following the authorization of such action by the City, commence an action for appropriate legal and/or equitable relief in the Court of Common Pleas.

(Ord. 10235/91. Passed 3-27-91.)

924.25 ANNUAL PUBLICATION.

Annually, the City shall publish in the local newspaper a list of all industrial users which at any time during the previous twelve months were in significant noncompliance with applicable pretreatment standards or requirements. (Ord. 10235/91. Passed 3-27-91.)

924.99 PENALTY.

(a) <u>Civil Penalties.</u> Any discharger who violates an order of the City or fails to comply with any provision of this chapter shall be subject to the imposition of a civil penalty. The City may assess these penalties in accordance with the tier system below. Such civil penalties shall be determined by the City based on the severity of the violation and the number of times the discharger was in violation for the same limit.

The tier system is as follows:

Tier 1 One thousand dollars (\$1,000) per violation; each day constitutes a separate violation.

Tier 2 Five thousand dollars (\$5,000) per violation; each day constitutes a separate violation.

Tier 3 Ten thousand dollars (\$10,000) per violation; each day constitutes a separate violation.

(Ord. 11047/97. Passed 5-14-97.)

- (b) <u>Criminal Penalties.</u> A discharger's willful or negligent violation of this chapter will be subject to criminal prosecution when the City of Warren has evidence of noncompliance which shows criminal intent, and such discharger shall be punished by a fine of not more than one thousand dollars (\$1,000) or by imprisonment for not more than six months, or by both. Each day in which any such violation continues shall constitute a separate offense.
- (c) <u>Falsifying Information</u>. Any person who knowingly makes false statements, representations or certifications in any application, record, report, plan or other document filed or required to be maintained pursuant to this chapter, or wastewater contribution permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this chapter, shall be punished by a fine of not more than one thousand dollars (\$1,000) or by imprisonment for not more than six months, or by both.

(d) <u>Administrative Penalties</u>. The City may assess penalties ranging in the amount of one hundred dollars (\$100.00) to three hundred dollars (\$300.00) per day upon any sewer user who fails to comply with the numerical value or administrative orders issued by the City or other regulatory agencies. Such administrative penalties shall be determined by the City based on the severity of the violation and the range of response (Tier) called for in the amended pretreatment program, enforcement response program.

The Tier structure called for in the enforcement response program administrative penalties shall be as follows:

- Tier 1 One hundred dollars (\$100.00) per violation; each day constitutes a separate violation.
- Tier 2 Two hundred dollars (\$200.00) per day violation; each day constitutes a separate violation.
- Tier 3 Three hundred dollars (\$300.00) per day violation; each day constitutes a separate violation.

Note: In addition to the administrative penalties stated herein, surcharges may be imposed upon violating dischargers. As stated in Section 925.03(d), such surcharges are intended to recover the additional costs associated with treating extra strength discharges and are not penalties.

(Ord. 10235/91. Passed 3-27-91.)



Water Pollution Control Department

City of Warren, Ohio

Michael J. O'Brien

Mayor

2323 Main Ave., S.W., Warren, Ohio 44481-9603 Phone: (330) 841-2591 Fax: (330) 841-2717 William Douglas Franklin
Director of Service-Safety

September 15, 2011

Thomas A. Angelo
Director

James Wilden Superintendent

Greg Lubert Sewer Systems Superintendent

Michael T. Welke Biosolids Manager

Keith Folman
Industrial Pretreatment
Coordinator

Tomás Parry OEPA Northeast District Office 2110 East Aurora Road Twinsburg, Ohio 44087

Re: NPDES Form 2A Permit Application

Dear Tomás,

Thank you for joining USEPA on Tuesday, September 13, 2011 of this week. I was not expecting a presence from Ohio and your involvement helped clarify some confusion that I had over the timing of our NPDES Permit expiration. As you recall during the plant tour, this subject was brought up and my belief was that the permit expired in July of 2012. A review of the permit indicated otherwise. Please accept my apologies for the late submittal of this application. I did not realize that it was due in July because I assumed the expiration date was July of 2012 due to the effective date being July 1, 2012. This is the third NPDES permit application I have been involved with and all prior ones expired in July. Also I was attempting to finalize the Local Limits documentation that would be needed for the submittal. A number of questions arose from our submission of the same in July of this year and our contracted Engineering Firm, Hazen And Sawyer, has been working with Columbus to finalize this document. To date this has not occurred but I am submitting what we have for review with this application. Again, thank you for the time and advice.

Our Combined Sewer Separation Project was completed in September of 2006. As a result, the City of Warren, Ohio no longer has sewers designed to operate as a combined system. We now have separate sanitary and storm sewers. However, when the High Street CSO #3PE00008020 was eliminated during the final stages of construction, Warren experienced an intense rainfall of approximately 1.9" inches in a little of 1 hour. This resulted in basement backups in the downtown business area that previously never surcharged. A decision was made to open the overflow on High Street and begin an investigation as to why the basements would backup when all of the surface water had been allegedly removed. This resulted in the construction of a Sanitary Sewer Overflow.



As indicated in my letter to you on March 17, 2011, an extensive volume of work and studies have already been accomplished that resulted in the removal of a considerable amount of infiltration and inflow that contributed the basement backups. The remaining project is the removal of the roof drains in the downtown area. Our timeline was to have them removed and the SSO eliminated by the end of the year. However, delays in completing contract documents with our selected Engineering Firm and finalizing construction of 2 storm water retention ponds (that was delayed due to excessive wet weather in spring) caused the timeline to fall behind. We had a kickoff meeting with URS Corp. (our selected Engineering Firm for the project) on August 30, 2011. A number of the necessary building reviews had already been accomplished by the City and URS will be completing the remaining reviews and developing specifications for bid. It is our goal to bid this project in November. Our projected completion date was late spring to early summer which would have met my perceived timeline of having the SSO removed prior to the expiration of our current NPDES Permit. Obviously my previously discussed oversight as to the actual date of expiration does not allow this to occur. However, that does not stop Warren from eliminating the SSO before January 31, 2012. The SSO can still be bricked up but it would present the possibility of flooded basements if a mid-winter thaw with rains would happen. This is not desirable and I am asking OEPA to allow for the completion of the project within the projected timeline as discussed.

If you have any questions regarding this information, please do not hesitate to contact me.

Thank you,

Thomas A. Angelo Director Water Pollution Control Center

Pc: Jim Wilden Plant File Attachments

File; c:/wpc/word/Tomas Parry NPDES Permit (2011)



FORM	U.S. ENVIRONMENTAL P						I. EPA I.D. NUMBER			
1 EP	Consolidated F	Permits F	Program	7		Ī				
I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION	Ohio EPA does not provide labels. Enter this information in items I, III, V and VI.						If a preprinted label has be it in the designated space ation carefully; if any of it through it and enter the cappropriate fill-in below. It the preprinted data is abseleft of the label space list that should appear), pler proper fill-in area(s) below complete and correct, yo Items I, III, V, and VI (amust be completed regalitems if no label has been the instructions for details tions and for the legal au which this data is collected.	e. Review is incorrect datalso, if an ent (the sthe info ase providuo need no except VI-dless). (In provide datalso, it is not the law thorizatio	the interpretation that the interpretation that the interpretation is the interpretation that the interpretation is the interpretation in the interpretati	form- ss ee to the n the plete ch ete all er to
II. POLLUTANT CHARACTER	ISTICS									
questions, you must submit the supplemental form is	te A through G to determine whe hit this form and the supplementa attached. If you answer "no" to equirements; see Section C of the	al form each e instr	listed quest uction	d in the plion, you r ion, you r is. See al	arenthesis fo need not sub	llowing the question. mit any of these forn	Mark "X" in the box in the sox in	e third o	colum activit rms.	n ty
SPECIFIC	QUESTIONS		MARK	FORM		SPECIFIC QUI	ESTIONS	YES	MARK	'X' FORM
A. Is this facility a publicly of which results in a discharg (FORM 2A)		YES	NO	ATTACHED	include a aquatic a	ill this facility (either exconcentrated animal finimal production facility to waters of the U.S.	eeding operation or ity which results in a	YES	X	ATTACHE
C. Is this a facility which curren to waters of the U.S. othe A or B above? (FORM 20	er than those described in		×		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	×	54
E. Is this a facility which does not wastewater? (FORM 28)			×		F. Is this a facility which discharges stormwater associated with industrial activity? (FORM 2F)				×	
Part 503? Do you generate another facility for treatme	ludge that is ultimately regulated by sewage sludge that is sent to nt or blending? Do you process or le studge that is disposed in a ? (FORM 2S)	×		×						
City of Warren, Ohio \	Water Pollution Control Fa	cility				6		E miles	11000	
IV. FACILITY CONTACT				100					4000	
	A. NAME & TTILE (last, first, sitle)		5				B. PHONE (are	DATE TO SE	ATTURNACE SAME	OF VILL
Angelo, Thomas - Dir	ector (ww4-1008404-03)				***************************************		(330) 8	41 – 2	591	
V. FACILITY MAILING ADDR	ESS TO THE THE THE THE THE THE					NE DESTRUCTION OF				
2323 Main St.	A. STREET OR P.O. BOX						Verification of the second of		8-1	
2323 Wall St.	B. CITY OR TOWN	en em				C. STATE	D. ZIP CODE			-
Trumbull		2.00.000		To .		Ohio	44481			
VI. FACILITY LOCATION		13/1/2	S HIT				ALERA AND AND AND A		111≦3.04 () 100	La case
	ET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIE	ER	n Wild		10 (10 to 10 to					14,02 h.
2323 Main St.	*									
San and a state of the state of	B. COUNTY NAME								72577	
Trumbull						·		E 50/	TV AA-	NE.
	C. CITY OR TOWN					D. STATE Ohio	E. ZIP CODE 44481	F. COUN	nown)	·E.
Warren										

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)	Marry State W				AVERYMENT OF THE
A. FIRST (specify)		(spec	ify)	B. SECOND	
4950			5-211 - 1-4-1-1-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
C. THIRD		(spec	ffv)	D. FOURTH	1900/1900
(specify)		ispec	evi (c)		
VIII. OPERATOR INFORMATION	MATHEWAY AND A				
The state of the s	A. NAME		- Protestantes		B. Is the name listed in Item VIII-A also the
City of Warren, Ohio		-	8		owner? Yes No
	the answer box; if "Other", specify.)	6.1	A warrent belle		D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than S = STATE O = OTHER (specify) P = PRIVATE	federal or state) (speci	937			(330) 841 – 2591
E, STREET OR P.O. BOX			11		
2323 Main St.					
F. CITY OR TOWN	The Property Sales	G. STATE	H. ZIP CODE	IX. INDIAN	
Warren		Ohio	44481	Is this facil	ity located on Indian lands? No
X. EXISTING ENVIRONMENTAL PERMITS					
A. NPDES (Discharges to surface water)	D. PSD (Air emissions from pro	oposed sources)			
3PE00008*LD					
B. UIC (Underground injection of fluids)	E. OTHER (specify)				
			specify)		
C. RCRA (Hazardous waste)	F. OTHER (specify)			~ .	(1
30		[specify)		
XI. MAP				erio in rich	
Attach to this application a topographical ma the outline of the facility, the location of each treatment, storage, or disposal facilities, and water bodies in the map area. See instruction	n of its existing and proposed I each well where it injects flui	intake and dischar	ge structures, each	of its hazard	dous waste
XII. NATURE OF BUSINESS (provide a brief des	The state of the s			AND STREET	(国图: 145 X (37 Y 57 H) 1
Municipal Wastewater Treatment Pla	BIRRY DOMINIED BY				
Municipal Wastewater Treatment Fia	airt.				Æ
XIII. CERTIFICATION (see instructions)					
I certify under penatly of law that I have personal trachments and that, based on my inquiry of application, I belive that the information is true false information, including the possibility of the second	f those persons immediately i ie, accurate, and complete. I a	esponsible for obt	aining the information	on contained	in the
A. NAME & OFFICIAL TITLE (type or print)		NATURE			C. DATE SIGNED
COMMENTS FOR OFFICIAL USE ONLY					



Ohio EPA Form 2A Revised 7/07

National Pollutant Discharge Elimination System

Application for Permit to Discharge Wastewater Publicly Owned Treatment Works

NPDES Form 2A

Submit this application to the appropriate district office

District Offices

Northeast District • 2110 East Aurora Road • Twinsburg, Ohio • 44087 Northwest District • 347 North Dunbridge Road • Bowling Green, Ohio • 43402 Central District • P.O. Box 1049 • Columbus, Ohio • 43216-1049 Southeast District • 2195 Front Street • Logan, Ohio • 43138 Southwest District • 401 East 5th Street • Dayton, Ohio • 45402

For	Facility Name:	Date Received (yy/mm/dd)
Agency Use	Ohio EPA Permit Number:	Application Number:



Form 2A NPDES Application for Permit to Discharge Wastewater **Publicly-Owned Treatment Works**

I. Outfall Information		*	
(All treatment works must complete Part I)	n	######################################	id id

A. Description of Outfall. List all effluent outfalls through which sanitary wastewater is discharged. Do not include information on combined sewer overflows (CSO) or collection system / treatment works bypass points.

Outfall La Number		Latitude		Longitude D			Discharge Point Location	Receiving Water	
	Deg.	Min.	Sec.	Deg.	Min.	Sec.			
	41N	12'	08"	80W	48'	02"	Final Effluent	Mahoning River	

littent Discharges. Except for storm runoff, ittent or seasonal?	leaks, or sp	oills are any of t	he discharges described in Item A	60.
Yes (Complete the following table)	×	No	<u>8</u>	

Outfall Number	Period of Discharge	Frequency	Duration
		2	

II. Treatment Works Information

Latitude/Longitude Data Comments:

(All treatment works must complete Part II. The treatment works includes the collection system and treatment plant.)

A. Population. List the municipalities or areas served (municipalities and unincorporated service areas). Also, list their populations or total population served. (Attach additional pages as needed)

Municipality or Area	Population Served
City of Warren, Ohio	43,402
Village of Lordstown, Ohio	3,522
Champion Township, Ohio	9,762
Howland Township, Ohio	1,525
Warren Township, Ohio	850
Total Population Served:	59,061

EPA 4496 (7/07)

Page 1 of 6

B.	Co	lection	System

percent contributi	on (by m				<i>y</i> 10 11110	il oddinoi	nt plant; check	an that apply	. Also estimate the
XSeSeSe	eparate s ombined	Sanitary Storm a	Sewer nd San	itary Sev	ver		100 % %		
2. Are you responsi	ble for m	aintenar	nce of th	ne entire	collection	n systen	n tributary to t	ne treatment p	plant?
XY	es		No	(List en	tities wh	o are res	ponsible for t	he collection s	ystem below)
3. Total number of I	ift station	ns in you	r collec	tion syst	em.				
	eparate ombined	Sanitary I Storm a	and Sar	itary					
4. Does your collec	tion syst	em have	bypass	ses or ov	erflows	(Do not	include CS0s)	
×Y	es		No)					
If yes, are t						90			
X_ a. at	location	s specifi	cally co	nstructed			aulic relief to t the operator	ne collection s	system
							ed", complete	the following	table
For the ove	mows or	bypass	es man	are spec	illically (Jonstiuct	eu , complete	the following	table.
Discharge Point		Latitude		Į Ł	ongitud		Receivin	g Water	Treatment Description
Location	Deg.	Min.	Sec.	Deg.	Min.	Con			
		1700 - 120 P	SAMESCONOM		2000000	Sec.			
High ST./N. Park	41N	14'	15"	80W	49'	13"	Mahoni	ng River	See Cover Letter
High ST./N. Park		1700 - 120 P	SAMESCONOM		2000000		Mahoni	ng River	
High ST./N. Park Latitude/Longitude	41N	14'	15"	80W	49'	13"			
57695-X 5- HIM	41N de Data	14' Comme	15" nts:	80W	49'	13"		42-6-MIII	See Cover Letter
Latitude/Longitude 5. List source(s) of	41N de Data	14' Comme	15" nts:	80W	49'	13"	stem. <i>(Attact</i>	42-6-MIII	See Cover Letter
Latitude/Longitude 5. List source(s) of Source	41N de Data water su	14' Comme	15" nts:	80W	49' ntire coll	13" ection sy	stem. <i>(Attact</i>	additional pa	See Cover Letter ges as needed)
Latitude/Longitude 5. List source(s) of Source	41N de Data water su	14' Comme	15" nts:	80W	49' ntire coll Source	13" ection sy	stem. <i>(Attact</i>	additional pa	See Cover Letter ges as needed) Owner
Latitude/Longitude 5. List source(s) of Source	41N de Data water su ce Type ake ate Well	14' Comme	15" nts:	80W	49' ntire coll Source	13" ection sy Location	stem. <i>(Attact</i>	additional pa	See Cover Letter ges as needed) Owner Corp of Engineers
Latitude/Longitude 5. List source(s) of Source L Priva	41N de Data water su ce Type ake ate Well	14' Commei	15"	es the er	49' Source Trumb	ection sy Location ull Count	stem. <i>(Attact</i> n	additional pa	See Cover Letter ges as needed) Owner Corp of Engineers Various
Latitude/Longitud 5. List source(s) of Source L Priva C. Inflow and Infile	41N de Data water su ce Type ake ate Well fration	14' Commei	15"	es the er	49' Source Trumb	ection sy Location ull Count	stem. <i>(Attact</i> n	additional pa	See Cover Letter ges as needed) Owner Corp of Engineers Various

D. Flow. Indicate the design influent flow rate of your treatment plant. Also provide the annual average daily flow rate for each of the last three years (mgd to three decimal places).

1. Design daily influent flow rate: ___16.000 mgd

	<u>Two Ye</u>	ars Ago <u>Last Year</u>	This Year
2. Annual average daily	flow rate:13.5	380 15.560	17.610 mgd
3. How was flow rate de	etermined?		
Parshall Flume	Weir Ventur	ri Electromagnetion	c X Sonic Estimate Other
4. Location where flow	rate was measured: WW	PC - Channel between	Primary & Secondary
			plant capacity during the life of the permit?
	Provide details on expan		
	Description (Attach add		
2.00	e year of the treatment pl		
	e year of the treatment pl		
3. List all treatment unit	ts at the treatment plant.	Do <u>not</u> include units for	treating sewage sludge.
Treatment Code (See Instructions)	Treatmer	nt Type	Manufacturer (if known)
02	Prelim	inary	
03	Prelim	inary	
08	Prim	ary	V
25	Biolog	gical	200 8532 60 000
39	Phys	ical	
70	Chen	nical	2
71	Chen	nical	· 8
			43
	PROCESSION AND ADDRESS OF THE PROCES		City Comments
	plant have provisions for (Complete the following to		partially-treated wastewater?
Bypass Location	Station Number (if applicable)	Bypass Typ	Number of times used in last year
Does your treatment during power outage X Yes		rators or other provision	n(s) to allow operation and/or treatment to continue

Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 G. Improvements 1. Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs with may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance of Condition 1998 Modification of Condition Modification 1998 199	. Treatment Opera	itions					
	. Number of employ	yees at the treatmen	t works				æ
Name and certification of person in responsible charge of the treatment works. Thomas A. Angelo - WW4-1008404-03 Name and certification of person in responsible charge of each collection system tributary to the treatment plant (if known). (Attach additional pages as needed.) Thomas A. Angelo - WW4-1008404-03 Gregory Lubert - WW3-1008300-85 Does the treatment works (collection system and/or treatment plant) have an Operations and Maintenance Man X Yes (Complete the following table. Attach additional pages as needed.) No Type Developed By Date Developed Modification Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2000 Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs we may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan com	10Cc	ollection system	8	_ hr/day	5	days/wk	
Thomas A. Angelo - WW4-1008404-03 Name and certification of person in responsible charge of each collection system tributary to the treatment plant (if known). (Attach additional pages as needed) Thomas A. Angelo - WW4-1008404-03 Gregory Lubert - WW3-1008300-85 Does the treatment works (collection system and/or treatment plant) have an Operations and Maintenance Man X Yes (Complete the following table. Attach additional pages as needed.) No Type Developed By Date Developed Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 3. Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs we may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule	31Tr	eatment plant	24	_ hr/day	7	days /wk	
(if known). (Attach additional pages as needed) Thomas A, Angelo - WW4-1008404-03 Gregory Lubert - WW3-1008300-85 Does the treatment works (collection system and/or treatment plant) have an Operations and Maintenance Man		Secretary Control of the Control of	•	arge of the tr	eatment wo	rks.	200 C
Does the treatment works (collection system and/or treatment plant) have an Operations and Maintenance Man	. Name and certific (if known). (Attac	ation of person in re h additional pages a	sponsible ch	arge of each	collection s	ystem tributary to the	treatment plant
Type Developed By Date Developed Date of Modifice Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 3. Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs way affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance of Condition Project Prinal Compate Prinal Compate Project Prinal Compate Prinal Co			03				
Type Developed By Date Developed Date of Modifice Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 3. Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs way affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance of Condition Project Prinal Compate Prinal Compate Project Prinal Compate Prinal Co				8 8			
Type Developed By Date Developed Date of Modifice Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 6. Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs with may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance schedule letters are included by the following table. Attach additional pages as needed.) Yes (Complete the following table. Attach additional pages as needed.) Final Complete This includes information describing any additional water pollution control programs (or other pages).							325
Plant Havens & Emerson 1988 Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 i. Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs we may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan complete the following table. Attach additional pages as needed.) Identification of Condition Outfall Number Description of Project Final Complete the following table. Attach additional pages as needed.)	XY	es (Complete the fo	llowing table.	Attach addi	tional pages	s as needed.)	
Plant In-House 1993 2010 Collection Havens & Emerson 1980 2004 6. Improvements Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs with may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance of the following table. Attach additional pages as needed.) Ves (Complete the following table. Attach additional pages as needed.) X No No No No No No No	Туре		Developed E	Зу		Date Developed	Date of Last Modification
Collection Havens & Emerson 1980 2004 3. Improvements 1. Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs with may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance. Attach additional pages as needed.) Yes (Complete the following table. Attach additional pages as needed.) Identification of Condition Outfall Number Description of Project Final Complete the following table. Attach additional pages as needed.)	Plant	Ha	avens & Eme	erson		1988	
I. Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs we may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan complete the following table. Attach additional pages as needed.) Yes (Complete the following table. Attach additional pages as needed.) No Identification of Condition Outfall Number Description of Project Final Complete the following table. Attach additional pages as needed.)	Plant	17	In-House			1993	2010
. Are you required by any Federal, State, or local authority to meet any implementation schedule for the construct upgrading or operation of wastewater treatment equipment or practices or any other environmental programs we may affect the discharges described in this application? This includes, but is not limited to, permit conditions administrative orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan compliance. Attach additional pages as needed.) Yes (Complete the following table. Attach additional pages as needed.) No Identification of Condition Outfall Number Description of Project Final Complete the following table. Attach additional pages as needed.)	Collection	Ha	avens & Eme	erson		1980	2004
Identification of Condition Outfall Number Description of Project Final Compate Date 2. Optional: You may provide information describing any additional water pollution control programs (or other	. Are you required upgrading or ope may affect the dis	ration of wastewater scharges described	treatment e	quipment or pation? This in	oractices or cludes, but	any other environmen is not limited to, permi	tal programs which it conditions
Date Optional: You may provide information describing any additional water pollution control programs (or other	Y	es (Complete the fol	lowing table.	Attach addi	ional pages	as needed.)	X No
	Identification of Co	andinon I		Des	cription of P	roject	Final Compliar Date
				e de la composition della comp			
		WY99					
environmental projects which may affect your discharge) that are currently in progress or planned. Indicate the							
implementation schedule for the programs.				charge) that a	re currently	in progress or planne	d. Indicate the

6. Provide a line drawing showing the wastewater flow through the treatment plant, including all bypass piping.

	eatment works have CS		1100					
	Yes (Complete the			d .		>	KNo	2
Outfall Number	Description	Latitude		7	Longitude		Receiving Water	
		Deg.	Min.	Sec.	Deg.	Min.	Sec.	
	12 12 12 12 12 12 12 12 12 12 12 12 12 1							Village and the state of the st
								A TO A COMPANS OF THE PARTY OF
						1 11		
	US 40K-IN KO							
.atitude/Longi	tude Data Comments:	CONTRACTOR N		2.82	(* <u></u>	· · ·	(m) (4.44	
		NOC		×				
IV. Indust	rial Users Informa	tion						·
A. Number of treatment v		vide the nu	mber of	each of	the follo	wing typ	es of indust	trial users that discharge to the
1. Nu	mber of Industrial Users	s: <u>10</u>						
	mber of non-categorica				(SIU): _	1	· ·	
B. Average D	mber of categorical indo Daily Flow from all Indo			15	total av	erage da	aily wastewa	ater flow from all industrial
users.	industrial users:1.0	19 mad						
	n-categorical SIUs only		mgd					
	tegorical industrial user					120		
C. Pretreatm	ent Program. Does this	s POTW ha	ve an a	pproved	pretreat	ment pr	ogram? _	Yes Ne
If no, does	this POTW have techn	ically-base	d local li	imits?		_Yes		No

the permit to receive) waste, BUSTR waste	RCRA hazardous waste, CE	treatment wo ERCLA (Supe	orks currently receive (or is erfund) site remediation wa	it expected during the life of aste, RCRA corrective action
Yes (C	omplete the following table.	Attach addit	ional pages as needed.)	No
Type of Action	Waste Origin		Wast	e Description
9		12. 		
	v	2		
***************************************				6
VI. Contract Labor	atory Information			
	Analysis Information. Are			uent quality information or
XYes (0	Complete the following table.	Attach addi	tional pages as needed.)	No
Name	Address		Telephone Number	Pollutants Analyzed
Precision Analytical I	nc. 4450 Johnstown Pk	y Unit B	(216) 663-0808	See Attached
4			8	10 E
esults of whole effluent erformed during the las est requirements. s a Whole Effluent Biolo	ow rate greater than 1 mgd obiological toxicity tests for a	cute or chron followed Oh	ic toxicity for each dischar io EPA testing protocol. S	ent program must provide the ge. The tests must have beer See instructions for minimum
	2			294
VIII. Certification	section property and the section of			
a system designed to assume person or persons who he best of my knowledge	re that qualified personnel prop manage the system or those p	perly gather an persons directly omplete. I am	d evaluate the information so y responsible for gathering th aware that there are significa	on or supervision in accordance was britted. Based on my inquiry of the information, the information is, and penalties for submitting false
A. NAME AND OFFICIAL	_ TITLE (type or print)	В.	PHONE NO. (area code & r	00.)
Thomas A. Ange	lo - Director		(330) 841-2591	
C. SIGNATURE	ANNE STEER PROPERTY.	D	DATE SIGNED	



Ohio EPA Form 2S Revised 1/07

National Pollutant Discharge Elimination System

Application for Sewage Sludge Use or Disposal *NPDES Form 2S*

Submit this application to the appropriate district office

District Offices

Northeast District • 2110 East Aurora Road • Twinsburg, Ohio • 44087

Northwest District • 347 North Dunbridge Road • Bowling Green, Ohio • 43402

Central District • P.O Box 1049 • Columbus, Ohio • 43216-1049

Southeast District • 2195 Front Street • Logan, Ohio • 43138

Southwest District • 401 East 5th Street • Dayton, Ohio • 45402

For	Facility Name:	Date Received (yy/mm/dd)	
Agency Use	Ohio EPA Permit Number:	Application Number:	



Form 2S NPDES Appli	ication for Sewage Sludge Use or	Disposal
I. General Info	rmation	
A. Treatment Syst 1. List all treatment	em Description units used for collecting, dewatering, storing, or tre	eating sewage sludge:
Treatment Code	Treatment Type	Manufacturer
A8	Air Flotation Thickening	8
A5	Mechanical Dewatering (Filter Press)	Ash Brook
98	Lime Stabilization	RDP
A1	Air Drying	
C4	Land Spreading	
C6	Distribution and/or Marketing	
permit. 3. Is this facility a C	Class I sludge management facility? Class I facilities	rocesses that will be employed during the term of the sinclude POTWs required to have an approved
pretreatment pro	ogram	
	capacity of the sewage sludge treatment system (ga 20,592 dry tons/yr	allons of sludge/yr x 8.34 lb/gal x tons/2000 lb x
5. Date of the sewa	age sludge treatment system construction or last ma	ajor modification: 10/15/1997
B. Amount Genera	ated On Site	
1. Total sewage slu	udge generated at your facility for the most recent y	ear: 2,826.8 dry tons
2. Do you receive s	sewage sludge from other generators? Ye	es <u>X</u> No
If yes, total rece	ived from other generators for the most recent year	: dry tons
3. Do you receive	domestic septage?XYes	_ No
	unt of domestic septage received for the most recei	_

	tory Name:						war on the same
Pollu	tant Name	CAS#	No. of Analyses	Average Concentration (mg/kg)	Maximum Monthly Average Concentration (mg/kg)	Range of Data (Min Max.) (mg/kg)	Minimum Detection Level
Arsei	nic	7440-38-2	12	4.580	7.26	1.02-7.26	<2.0
Cadr	nium	7440-43-9	12	<2.0	<2.0	<0.498-<1.37	<2.0
Сорр	er	7440-50-8	12	93.83	124	34.6-124	10
Lead		7439-92-1	12	30.22	63	8.68-63	10
Merc	ury	7439-97-6	12	.478	.984	<0.147984	<.2
Moly	bdenum	7439-98-7	12	15.46	30.6	4.68-30.6	10
Nicke	el	7440-02-0	12	31.818	71.1	9.01-71.1	10
Selei	nium	7782-49-2	12	16.38	37.6	<1.14-37.6	<2.0
Zinc	11	7440-66-6	12	309.5	467	93.5-467	10
No	does <u>not</u> a Site for Ti	pply to sewage reatment)	sludge haule	d to land applicati	ility that provides treatment on or surface disposal site	s. (Section II: Shi	pment Off
No	does <u>not</u> a Site for Ti	pply to sewage reatment) sludge from yo	sludge haule our facility app	d to land applicati	on or surface disposal site This section includes excep	s. (Section II: Shi	pment Off
	does <u>not</u> a Site for Ti Is sewage	pply to sewage reatment) sludge from yo	sludge haule our facility app	d to land applicati	on or surface disposal site	s. (Section II: Shi	pment Off
Para de la constanta de la con	does <u>not</u> a Site for Ti Is sewage (EQS) and Sludge)	pply to sewage reatment) sludge from yo I sewage sludg	sludge haule our facility app e applied to la	d to land applicati lied to the land? T and reclamation si	on or surface disposal site This section includes excep	s. (Section II: Shi ntional quality sewa plication of Bulk	pment Off age sludge Sewage
Yes	does not a Site for Ti Is sewage (EQS) and Sludge) Is sewage	pply to sewage reatment) sludge from yo I sewage sludg sludge from yo	e sludge haule our facility app e applied to la our facility plac	d to land applicati lied to the land? T and reclamation si ced on a surface d	on or surface disposal site This section includes exceptes. (Section III: Land App	s. (Section II: Shi dional quality sewa plication of Bulk Surface Disposa	pment Off age sludge Sewage
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Yes No No	does not a Site for Tr Is sewage (EQS) and Sludge) Is sewage Is sewage Is sewage Municipal	pply to sewage reatment) sludge from your solid Waste L	e sludge haule our facility app e applied to la our facility plac our facility fired our facility plac andfill)	d to land application of the land? The land reclamation sided on a surface of the land as sewage sluctured to land a sewage slucture.	on or surface disposal site This section includes exceptes. (Section III: Land Application Section IV: dge incinerator? (Section IV)	s. (Section II: Shi ntional quality sewa plication of Bulk Surface Disposa V: Incineration)	pment Off age sludge Sewage
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No No No No II. S Inf pa . Noi . Fac	Is sewage (EQS) and Sludge) Is sewage Is sewage Is sewage Municipal	pply to sewage reatment) sludge from your solid Waste L Off Site for sludge hauled to noff site treat ssary) 'E	e sludge haule our facility app e applied to la our facility place our facility fired our facility place andfill) Treatment o all receiving	d to land application of the land? The land reclamation sinced on a surface of the land of the land? The land of	This section includes exceptes. (Section III: Land Applies) Ilisposal site? (Section IV: Idge incinerator? (Section IV) I solid waste landfill? (Section IV) I solid waste landfill? (Section IV)	s. (Section II: Shi etional quality sewa plication of Bulk Surface Disposa 7: Incineration) tion VI: Disposal dry tons	age sludge Sewage
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III. L	and Application of Bulk Sewage Sludge	2
A. Lan	d Application Generation Information	
1. Tota	al sewage sludge from your facility applied to all land a	oplication sites for the most recent year: 3,320.1 dry tons
2. Tota	al number of land application sites currently assigned a	n Ohio EPA site identification number:N/A
3. Tota	al acreage of land application sites currently assigned a	an Ohio EPA site identification number:N/A
	all counties that you currently (or you expect during the	
Bull	k - Trumbull, Mahoning, Ashtabula, Geauga, Portage, gged - State of Ohio, West Virginia, Pennsylvania	** ** ***
5. Are	any land application sites located in states other than	Ohio? X Yes No
35	es, describe how you notify the permitting authority for parate PTI and Sludge Reporting Form with the Penns	the States where the land application sites are located. ylvania DEP also the Department of Agricultural
polli If ye		
7. Doe	r that was land applied:100%es sewage sludge from your facility meet the ceiling corpollutant concentrations in Table 3 of CFR 503.13?es, provide total percentage from Section III A.1 that me	
	centrations for the most recent year that was land app	
	at percentage of sewage sludge from Section III A.1 (irss? Class A Class	dry tons per year) is achieved for each pathogen reduction B
9. Wh	ich Pathogen Reduction Alternative is used to achieve	the class? (Choose all that apply)
	Class A	Class B
	Thermally Treated Biosolids	Monitoring of Indicator Organisms
×	Biosolids Treated in a High pH- Temp.	PSRP, Aerobic Digestion
	Biosolids Treated in Other Processes	PSRP, Air Drying
	Biosolids Treated in Unknown Processes	PSRP, Anaerobic Digestion
	PFRP, Composting	PSRP, Composting

PSRP, Lime Stabilization

Biosolids Treated in a PSRP Equivalent

X

PFRP, Heat Drying

PFRP, Beta Ray Irradiation
PFRP, Gamma Ray Irradiation

PFRP, Pasteurization
PFRP, Heat Treatment

PFRP, Thermophilic Aerobic Digestion

Biosolids Treated in a PFRP Equivalent

10. Which Vector Attraction Reduction option is met for the sewage sludge at your facility? (Choose all that apply)

	VAR Option
	Option 1 (Minimum 38 percent reduction in volatile solids)
	Option 2 (Anaerobic process, with bench-scale demo)
	Option 3 (Aerobic process, with bench-scale demo)
	Option 4 (Specific oxygen uptake rate for aerobic digested sludge)
	Option 5 (Aerobic process plus raised temperature)
×	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
	Option 9 (Injection below land surface)
	Option 10 (incorporation into soil within 24 hours)
	Option 11 (Cover sludge placed on a surface disposal)
	Option 12 (Domestic septage pH adjustment)

B. Spill Contingency Plan. All facilities	that land apply sewage sludge are required to	have a spill contingency plan.
1. Date spill contingency plan was submi	itted to Ohio EPA:	S STANDARD
Have there been any substantial modi Yes No	fications to the spill contingency plan since it w	as submitted to Ohio EPA?
If yes, please submit a copy of the mo	dified spill contingency plan to the appropriate	district office.
IV. Surface Disposal		
A. Total sewage sludge from your facility	placed on all surface disposal sites for the mos	st recent year: dry tons
B. Information on Active Sewage Slud (Attach additional pages as necessary	lge Units. Complete this section for each active (/)	e sewage sludge unit.
Name of facility:	100	
2. Facility contact: Name:	V	
Title:	Phone:	
3. Facility location: Street:		
City:	State:	Zip:
4. Total sewage sludge placed on the ac	ctive sewage sludge unit for the most recent yea	ar: dry tons
V. Incineration		5
A. Total sewage sludge from your facility	y fired in all sewage sludge incinerators for the i	most recent year: dry tons
B. Information on Sewage Sludge Inc	inerators. Complete this section for each incine	erator. (Attach additional pages as

Name of facility:	*)
Incinerator air permit number:	N N
3. Facility contact: Name:	
Title:	Phone:
4. Facility location: Street:	
City: S	State: Zip:
5. Total sewage sludge from your facility fired in this sewage	ge sludge incinerator for the most recent year:
dry tons	
VI. Disposal in a Municipal Solid Waste Landf	IfiII
A. Total sewage sludge from your facility placed in all munic	icipal solid waste landfills for the most recent year:
dry tons	
B. Information on municipal solid waste landfills. Compl (Attach additional pages as necessary)	plete this section for each municipal solid waste landfill.
1. Name of facility:	
2. Facility contact: Name:	
Title:	Phone:
3. Facility location: Street:	6
City: S	
4. Total sewage sludge from your facility fired in this sewage	ge sludge incinerator for the most recent year:
dry tons	
VII. Certification	
a system designed to assure that qualified personnel properly gath the person or persons who manage the system or those persons of	nts were prepared under my direction or supervision in accordance with ther and evaluate the information submitted. Based on my inquiry of directly responsible for gathering the information, the information is, to be. I am aware that there are significant penalties for submitting false knowing violations.
A. NAME AND OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
Thomas A. Angelo - Director	(330) 841-2591
C. SIGNATURE	D. DATE SIGNED



DIVISION OF SURFACE WATER

Antidegradation Addendum

In accordance with Ohio Administrative Code 3745-1-05 (Antidegradation), additional information may be required to complete your application for a permit to install or NPDES permit. For any application that may result in an increase in the level of pollutants being discharged (NPDES and/or PTI)or for which there might be activity taking place within a stream bed, the processing of the permit(s) may be required to go through procedures as outlined in the antidegradation rule. The rule outlines procedures for public notification and participation as well as procedures pertaining to the levels of review necessary. The levels of review necessary depend on the degradation being considered/requested. The rule also outlines exclusions from portions of the application and review requirements and waivers that the Director may grant as specified in Section 3745-1-05(D) of the rule. Please complete the following questions. The answers provided will allow the Ohio EPA to determine if additional information is needed. All projects that require both an NPDES and PTI should submit both applications simultaneously to avoid going through the antidegradation process separately for each permit.

A.	Applicant: <u>W</u>	/arren Wastewater Treatment Facility
	Facility Own	ner: City of Warren, Ohio
	Facility Loc	cation (city and county): Warren, Trumbull
	Application	or Plans Prepared By: Thomas A. Angelo
	Project Name	e: <u>N/A</u>
	NPDES Permit	t Number (if applicable): 3PE00008*LD
в.	Antidegradat	tion Applicability
	Is the appli	ication for? (check as many as apply):
		Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05(B)1, i.e., on-site disposal, extensions of sanitary sewers, spray irrigation, indirect discharger to POTW, etc.). (Complete Section E)
	X	Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants. (Complete Section E, Do not complete Sections C or D).
		PTI and NPDES application for a new wastewater treatment works that will discharge to a surface water. (Complete Sections C and E)
		An expansion/modification of an existing wastewater treatment works discharging to a surface water that will result in any of the following (PTI and NPDES): (Complete Sections C and E) Addition of any pollutant not currently in the discharge, or an increase in mass or concentration of any pollutant currently in the discharge, or an increase in any current pollutant limitation in terms of mass or concentration.

The second	3 10
Page	2

PTI that involves placement of fill or installation of any portion
of a sewerage system (i.e., sanitary sewers, pump stations, WWTP,
etc.) within 150 feet of a stream bed. Please provide information
requested on the stream evaluation addendum (i.e., number of stream
crossings, fill placement, etc.) and complete Section E.

Initial NPDES permit for an existing treatment works with a wastewater discharge prior to October 1, 1996. (Complete Sections D and E)

Renewal NPDES permit or modification to an effective NPDES permit that will result in any of the following: (Complete Sections C and E) $\,$

- a new permit limitation for a pollutant that previously had no limitation, or
- an increase in any mass or concentration limitation of any pollutant that currently has a limitation.

C. Antidegradation Information

1. Does the PTI and/or NPDES permit application meet an exclusion as outlined by OAC 3745-1-05(D)(1) of the Antidegradation rule?

____ Yes (Complete Question C.2)

__X No (Complete Questions C.3 and C.4)

- 2. For projects that would be eligible for exclusions provide the following information:
 - a. Provide justification for the exclusion.
 - b. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.
 - c. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.
- 3. Are you requesting a waiver as outlined by OAC 3745-1-05(D)(2-7) of the Antidegradation rule?

X No

____Yes

If you wish to pursue one of the waivers, please identify the waiver and submit the necessary information to support the request. Depending on the waiver requested, the information required under question C.4 may be required to complete the application.

- 4. For all projects that do <u>not</u> qualify for an exclusion a report must accompany this application evaluating the preferred design alternative, non-degradation alternatives, minimal degradation alternatives, and mitigative techniques/measures for the design and operation of the activity. The information outlined below should be addressed in this report. If a waiver is requested, this section is still required.
 - a. Describe the availability, cost effectiveness and technical feasibility of connecting to existing central or regional sewage collection and treatment facilities, including long range plans for

sewer service outlined in state or local water quality management planning documents and applicable facility planning documents.

- b. List and describe all government and/or privately sponsored conservation projects that may have been or will be specifically targeted to improve water quality or enhance recreational opportunities on the affected water resource.
- c. Provide a brief description below of all treatment/disposal alternatives evaluated for this application and their respective operational and maintenance needs. (If additional space is needed please attach additional sheets to the end of this addendum).

Preferred design alternative:

Non-degradation alternative(s):

Minimal degradation alternative(s):

Mitigative technique/measure(s):

At a minimum, the following information must be included in the report for each alternative evaluated.

- d. Outline of the treatment/disposal system evaluated, including the costs associated with the equipment, installation, and continued operation and maintenance.
- e. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.
- f. Describe the reliability of the treatment/disposal system, including but not limited to the possibility of recurring operation and maintenance difficulties that would lead to increased degradation.
- g. Describe any impacts to human health and the overall quality and value of the water resource.
- h. Describe and provide an estimate of the important social and economic benefits to be realized through this proposed project. Include the number and types of jobs created and tax revenues generated.
- Describe environmental benefits to be realized through this proposed project.
- j. Describe and provide an estimate of the social and economic benefits that may be lost as a result of this project. Include the impacts on commercial and recreational use of the water resource.

- Describe the environmental benefits lost as a result of this project. Include the impact on the aquatic life, wildlife, k. threatened or endangered species.
- A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.

-		Tafamatica
D.	Discharge	Information

	m.	Provide any other information that may be useful in evaluating this application.
Disch	arge I	nformation
1.		reatment/disposal systems constructed pursuant to a previously issued EPA PTI, provide the following information:
		umber ssuance Date al Date of Discharge
2.		ne appropriate NPDES permit application form been submitted including sentative effluent data?
	-	Yes (go to E)
	<u> </u>	No (see below)
	If no	, submit the information as applicable under ${\tt a}$ OR ${\tt b}$ as follows:
	a.	For entities discharging process wastewater attach a completed 2C form.
	b.	For entities discharging wastewater of domestic origin attach the results of at least one chemical analysis of the wastestream for all pollutants for which authorization to discharge is being requested and a measurement of the daily volume (gallons per day) of wastewaters being discharged.
perso	ns dire	y inquiry of the person or persons who manage the system or those ectly responsible for gathering the information, the information is, of my knowledge and belief, true, accurate and complete.
		on must be signed by the same responsible person who signed the g permit application or certification as per 40 CFR 122.22.
		Signature
		Date
		#

h:revised.adm June 30, 1997

E.

August 10, 2011

Mr. Sam Ludwick City of Warren, WPC 2323 Main Avenue, SW Warren, OH 44481

Re: Permit 3PE00008

Dear Mr. Ludwick:

Enclosed are two copies of EnviroScience's report for the following whole effluent toxicity (WET) tests that were initiated on July 12, 2011:

(1) 3-brood static, renewal chronic bioassay using *Ceriodaphnia dubia* (water flea), and (1) 7-day static, renewal chronic bioassay using *Pimephales promelas* (fathead minnow).

The tested concentrations were 10, 20, 40, 80, and 100 percent effluent. Effluent was diluted with synthetic freshwater. The effluent was not shown to be acutely or chronically toxic to the minnows but was shown to be toxic to the water fleas. Endpoints are listed below.

WET endpoints for City of Warren, Ohio WPC 3PE00008, 07/2011 sample collection period: 07/10-15/11

Outfall 001:

C. dubia (flea)	acute	$TU_a = AA$	(<0.2; <10% affected at 48 hours)
P. promelas (minnow)	acute		(<0.2: <10% affected at 96 hours)

C. dubia (flea)	chronic	$TU_c = 1.19$	(as 100 ÷ IC ₂₅ ; 1.11 as 100 ÷ ChV)
P. promelas (minnow)	chronic		(<1.0 as 100 ÷ IC ₂₅ & 100 ÷ ChV)

Please call me if you have any questions.

Sincerely,

Courtney E. Van Voorhis, Aquatic Biologist

enclosures



RESULTS OF CHRONIC TOXICITY TESTS

3-Brood Renewal - *Ceriodaphnia dubia* (water flea)
7 Day Static Renewal - *Pimephales promelas* (fathead minnow)

Testing period: July 12 - 19, 2011 Sample collection period: July 10 - 15, 2011 Report date: August 10, 2011

Conducted For:

CITY OF WARREN, WPC 2323 Main Avenue, SW Warren, OH 44481

Ohio EPA Permit No.: 3PE00008

Conducted and Prepared By:

ENVIROSCIENCE, INCORPORATED 3781 Darrow Rd. Stow, OH 44224 (800) 940-4025



Ce Van Voods

Aquatic Biologist

BIOMONITORING REPORT FORM FOR NPDES PERMIT REQUIREMENTS

Table 1. General Information

1. Facility:	City of Warren WPC	2	ğ.	Report date: <u>08/10/11</u>
2. Address:	2323 Main Avenue	SW, Warren, OH	44481	
3. Ohio EPA Permit No.:	3PE00008	4. NPDES No.:	OH002	7987
5. Facility Contact:	Sam Ludwick	6. Phone No.:	330-84	1-2591
7. Testing Lab:	EnviroScience, Inc.	, 3781 Darrow Ro	I., Stow,	OH 44224
8. Laboratory Contact:	Courtney Van Voorhi	§9. Phone No.:	800-94	<u>-0-4025</u>
10. Receiving Water(s) of	Discharge:	Mahoning Riv	<u>er</u>	
11. Outfall(s) Tested:	<u>001</u>		8	n a
Avg. Daily Flows on Day Sampled - MGI	see Table 2. Samp	ling Summary. Co	omments	<u>5.</u>
12. Current Standard Ope	erating Procedure (Se	OP) Manual on fil	e with O	EPA?
YES/NO: yes If	YES, date submitted	i: <u>10/2006</u>		i g
For City of Warren WPC: I certify under penalty of I information submitted in timmediately responsible formation, accurate and completely information, including	his document and ba for obtaining the infor ete. I am aware that	ased on my inquir mation, I believe there are signific	y of thos the subr ant pena	e individuals mitted information is
Signature Name (typed or pri	nted)	Date Title	8	7

Ohio EPA Permit No.: 3PE00008

	Toble 4 Summer of to delicities	at any ditional for abrenia tooting with Conjudent	a dubia as Dimenhalaa promalaa
	Table 4. Summary of toxicity te	st conditions for chronic testing with Ceriodaphnia Ceriodaphnia dubia	Pimephales prometas
1.	Testing period:	07/12/11-1025 to 07/18/11-0950	07/12/11-1120 to 07/19/11-1045
2.	Age and origin of test organisms:	<24 hours, EnviroScience 07/11/11 1200-1600	
3.	Test type and duration:	static, daily renewal, until 60% of control specimens produce 3rd brood	static, daily renewal, 7 days
4.	Light quality and intensity:	wide spectrum fluorescent/50-100 fc	wide spectrum fluorescent/50-100 fc
5.	Photoperiod:	16/8 hours light/dark	16/8 hours light/dark
6.	Test solution temperatures °C:	25±1 °C	25±1 °C
7.	Feeding regime:	daily: alga <i>Selenastrum capricornutum</i> to provide approx. 2.3x10 ⁵ cells/ml; and 0.1ml YAT	approx. 200-600 newly hatched brine shrimp, Artemia salina per vessel twice daily
8.	Size of test vessel:	30 ml·plastic cup	600 ml glass beaker
9.	Volume and depth of test solutions:	15 ml and 24 mm	250 ml and 4.2 cm
10.	No. of test organisms per vessel:	1	10
11.	No. of vessels per solution:	10	4
12.	Total no. of organisms per solution:	10	40
13.	Test concentrations as percent effluent:	10, 20, 40, 80, 100	10, 20, 40, 80, 100
14.	Renewal MM/DD-test days:	07/11-0,1; 07/13-2,3; 07/15-4,5	07/11-0,1; 07/13-2,3; 07/15-4,5,6
15.	Dilution and primary control water:	moderately hard reconstituted water (MHRW)	moderately hard dilute mineral water (DMW)
16.	Secondary control:	moderately hard dilute mineral water (DMW)	moderately hard reconstituted water (MHRW)
17.	Aeration:	none needed	none needed
18.	Endpoints:	mortality - no movement with gentle prodding (LC ₅₀ , TU _a): survival and reproduction NOEC; IC ₂₅ ; TU _c	mortality - no movement with gentle prodding (LC ₅₀ , TU _a); survival and growth NOEC; IC ₂₅ ; TU _c
19.	No. of consecutive tests conducted with an <u>alternate</u> source of primary control water:	NA	NA

TABLE 6

Results of a 7-Day <u>Pimephales promelas</u> Survival and Growth Test										
Conducted <u>07/12/11</u> - <u>07/19/11</u> Using Effluent from Outfall <u>001.</u>										
Test Solutions			Cumulative Percent Mortality ^a Dry weight (Cumulative Percent Adversely Affected) mg/fish exposed Test Day						eight xposed	
		1	2	3	4	5	6	7	Mean ^a	%CV
Lab water DMW diluent control		(0)	(0)	(0)	(<u>0</u>)	(0)	(5)	(5)	0.467	<u>9.8</u>
Lab water MHRW 2 nd control		(0)	<u>0</u> (0)	(0)	<u>0</u> (0)	$\frac{0}{(0)}$	<u>0</u> (0)	<u>0</u> (0)	0.517	<u>3.7</u>
10% Effluent		(0)	(0)	$(\frac{2}{2})$	(2)	$(\frac{2}{2})$	$(\frac{2}{2})$	$(\frac{2}{2})$	<u>0.516</u>	<u>1.5</u>
20% Effluent		(0)	(0)	(0)	$(\frac{2}{2})$	$(\frac{2}{2})$	<u>5</u> (5)	<u>5</u> (5)	0.494	<u>3.4</u>
40% Effluent		$\frac{0}{(0)}$	$\frac{0}{(0)}$	(0)	(0)	<u>0</u> (0)	<u>0</u> (0)	(<u>0</u>)	0.490	<u>3.5</u>
80% Effluent		$\frac{0}{(0)}$	<u>0</u> (0)	<u>0</u> (0)	<u>0</u> (0)	<u>0</u> (0)	<u>0</u> (0)	<u>0</u> (0)	0.497	<u>10.3</u>
100% Effluent		$(\frac{0}{0})$	<u>0</u> (0)	(0)	$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$	<u>0</u> (0)	<u>5</u> (5)	5 (5)	0.527	11.2
LC ₅₀ Values:		>100	>100	>100	>100	>100	>100	>100	Acute endp	oint, TUa:
Confidence	L								AA (<0.2)	
EC ₅₀ Values:		>100	>100	>100	>100	>100	>100	>100	Chronic end	dpoint,
Confidence	L JL								TUC: AA (<1.0 as 1 as 100 ÷ ChV)	00 ÷ IC ₂₅ ; AA
7-day NOEC for Survival: 100% 7-day NOEC for Growth: 10% Methods:						i i				
7-day LOEC for Survival: >100% 7-day LOEC for Growth: >100% Shapiro-Wilk's,										
Chronic Value for Survival: >100% Chronic Value for Growth: >100% ToxStat 3.5.				model;						
IC ₅₀ (95% C.I.): >100% IC ₂₅ (95% C.I.): >100%										
^a - indicate significan	t c	lifference	s from th	ne prima	ıry contr	ol with a	n * (α= 0	.05).		

ATTACHMENTS

Chain-of-Custody/Sample Submission Bench sheets and data analysis. Standard Reference Toxicant Control Charts.

TERMS

Acute Toxicity Terms

 LC_{50} = median lethal concentration.

A mathematical estimate of the effluent concentration that would kill 50% of the exposed specimens for the specified exposure period.

 EC_{50} = median effective concentration.

A mathematical estimate of the effluent concentration that would kill and/or otherwise adversely affect 50% of the exposed specimens for the specified exposure period. Adverse effects include deaths plus specimens exhibiting a behavioral effect such as immobility or atypical swimming posture.

TU_a = Acute Toxicity Unit.

 $100 \div LC_{50}$ (or as described in Ohio EPA guidelines for samples with 10% to 45% affected in 100% effluent; e.g., 10% affected = 0.2 TU_a; 15% affected = 0.3 TU_a; 20% affected = 0.4 TU_a45% affected = 0.9 TU_a).

Chronic Toxicity Terms

NOEC = No Observed Effect Concentration

Determined by statistical analysis, the highest tested concentration of effluent that was not associated with a statistically significant chronic effect such as reduced survival, reproduction, or growth when compared with a control group.

LOEC = Lowest Observed Effect Concentration

Determined by statistical analysis, the lowest tested concentration that was associated with a statistically significant chronic effect.

Ch V = Chronic Value = square root of NOEC*LOEC

IC₂₅ = Inhibition Concentration

Estimate of effluent concentration that would cause a 25% reduction in the measured response (water flea reproduction or fathead minnow growth); computed by linear interpolation.

 TU_c = Chronic Toxicity Unit; computed by:

1) 100+Ch V or

2) 100 ÷ IC_{25.}

Methods 1 and 2 for water fleas - report the higher value Method 2 for fathead minnows

EnviroScience, Inc. Cooler Receipt Form

Client WARREN WPC
ES Sample ID 07//// WARR
Cooler Received by: Date Cooler Received and Opened
1. Were custody seals on the outside of cooler? Were custody seals signed, dated and intact? Yes No No
2. Did Chain of Custody (COC) accompany the samples? Yes/_ No
3. Were the COC's signed in the appropriate places? Yes No
4. Was the sample time and date filled in correctly? Yes No
5. Sample Temperature upon receipt / / ° C
6. Did all sample container labels match the samples written on the COC? Yes V No Were the sample containers in good condition? Yes V No No
7. Was sufficient quantity received to perform indicated tests? Yes No
8. Was this sample received within required holding time? Yes No
Explain any discrepancies or client notifications that occurred regarding this sample:
. i



3781 Darrow Road Stow, Ohio 44224 Phone (330) 688-0111; 1-800-940-4025 Fax (330) 688-3858

EnviroScience, Inc. Cooler Receipt Form

Client WARREN WPC
ES Sample ID 07/3/1 WARR
Cooler Received by: 7M
Date Cooler Received and Opened <u>07-13-11</u>
Received from: FedEXUPSClient Drop OffES Courier_
1. Were custody seals on the outside of cooler? Were custody seals signed, dated and intact? Yes No
2. Did Chain of Custody (COC) accompany the samples? YesNo
3. Were the COC's signed in the appropriate places? Yes No
4. Was the sample time and date filled in correctly? Yes No
5. Sample Temperature upon receipt ° C
6. Did all sample container labels match the samples written on the COC? Yes VNo
Were the sample containers in good condition? Yes No
7. Was sufficient quantity received to perform indicated tests? Yes No
8. Was this sample received within required holding time? Yes No
Explain any discrepancies or client notifications that occurred regarding this sample:



3781 Darrow Road Stow, Ohio 44224 Phone (330) 688-0111; 1-800-940-4025 Fax (330) 688-3858

EnviroScience, Inc. Cooler Receipt Form

Client UJARLEN WPE
ES Sample ID_071511 WARR
Cooler Received by: 07-15-11 /1530
Date Cooler Received and Opened 07-15-11
Received from: FedEXUPSClient Drop OffES Courier
1. Were custody seals on the outside of cooler? Yes No
Were custody seals signed, dated and intact? YesNo
2. Did Chain of Custody (COC) accompany the samples? Yes V
3. Were the COC's signed in the appropriate places? Yes No
If No explain
4. Was the sample time and date filled in correctly? YesNo
5. Sample Temperature upon receipt 1.5 °C
6. Did all sample container labels match the samples written on the COC? Yes Vo
Were the sample containers in good condition? Yes No
7. Was sufficient quantity received to perform indicated tests? Yes No
8. Was this sample received within required holding time? Yes No
Explain any discrepancies or client notifications that occurred regarding this
sample:



3781 Darrow Road Stow, Ohio 44224 Phone (330) 688-0111; 1-800-940-4025 Fax (330) 688-3858

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-	EMILIDO.	
*	CIENCE	

EnviroScience Inc. Ceriodaphnia dubia Survival and Reproduction:

EII	iroscience inc.	. C <i>ertoaapnnta audta S</i> urvi	val and Reproduction 07121
D:	WARR		Start Date:

Project ID:	WARR	
Permit No.:		

 	1
Number	# Dead

Near-						Replic	cate					Number Adults	# Advers
	Day	1	2	3	4	5	6	7	8	9	10		
Field	1												
•	2												

						Replic	cate					Number Adults	# Dead/ # Adverse
	Day	1	2	3	4	5	6	7	8	9	10	٠	
	1	/	/	/	/	/	/		/	/	/	10	0/0
8:	2	/	/	/	/	/	/	/		/	/	10	0/0
20	3	5	5	4	4	5	6	4	4	0	4	10	0/0
	4	111	111	9	10	10	0	10	0	4	7	10	0/0
	5	0	0	0	0	(11	0	9	8	0	10	0 0
	6	16	15	14	13	14	14	15	12	14	17	10	0 0
	7												
Totals		32	31	27	27	29	31	29	25	26	28	₹ (SD) =	785(2,32)
Number of Broods		3	3	3	3	3	3	3	3	3	3	CV =	8,1

				,		Repli	cate			•	1	Number Adults	#Dead/
,	Day	1	2	3	4	.5	6	7	8	9	10		
	1		/				/	/	/	/		10	0/0
40	2	/	1	/		/					/	10	0/0
40	3	4	4	5	5	5	7	5	5	6	6	10	0/0
*	4	10	11	10	10	10	0	0	0	10	111	10	0/0
	5	0	0	0	0	0	11	10	11	0	0	0	0/0
	6	15	15	14	14	16	15	15	14	15	15	10	010
	7												-
Totals		79	30	29	79	31	33	30	30	31	39	⊼ (SD) =	×30.4(1.35)
Number of Broods		3	3	3	3	3	3	3	3	3	3	CV =	4,4



EnviroScience Inc.

Ceriodaphnia dubia Survival and Reproduction:

Project ID:	WARK	Start Da	ite: 071
Permit No.:			

Brood Board Information:

Replicate	1	2	3	4	5	6	7	8	9	10	BB#: BR070411 A
		1	4	12	7-	27	2-1	1 1.00	11-	54	Date: 071111
	12	6	1	113	25	02	01	45	145	04	Time: \200-1600

Test Information:

test inform	1	ř – –	1	1			I	
Day,	Initiation	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
YAT Batch #	YATH 053111	YATH 053111	YM I 053111	HTI053111	YAT 553111	YATE 053111		**
Algae Batch #	ESA 062111	ESA	ES A 062111	ESA 062911	ES A 062911	ESA 062911		
Final ⁰ C	й	24.9	25.2	25.1	25,5	24.9	25.5	
Final ^o C	5.00		25.1	25.1.	25.4	24.8	25,5	
Final ⁰ C		24.7	24.9	24.9	25.4	24.7	25.7	
Initial ⁰ C	26.0	24.2	24.5	24.2	24.9	24.2		Maj
Change time	1025	1040	1035	1120	1140	0955		
transfer 🗸	loaded	V	1	1	J			
Initials	KH	KR	MT	KR	L KR	LUA	TM	

Initial is the initiation temperature, or the temperature of the new board the C. dubia are being transferred into.

Comments Section:

Day	Date	- Comments	Initial
Day	Date		
leasure in the market		No	
14			
		3	
		E constant and the second seco	
Bo .			
		*	
**********		R.	
			
		1775	

MHR=Moderately Hard Reconstituted Water, MHR +ST= Moderately Hard Water and Sodium Thiosulfate, NF= Near Field, FF= Far Field, EFFLUENT dilutions expressed as percentage effluent e.g. 100% = 100% Effluent, 80% = 80% Effluent + 20% Dilution Water

Title: Warren WPC 071211 C.dubia reproduction; ToxStat 3.5:

Transform:

	Steel's	Many-One	Rank	Test	9 11 9	Ho:	Control <treatmer< th=""></treatmer<>
--	---------	----------	------	------	-------------------	-----	---------------------------------------

GROUP	IDENTIFICATION MHR diluent	MEAN IN ORIGINAL UNITS	RANK SUM	CRIT. VALUE	DF	SiG 0.05	
2 3	MHR diluent 10% 20%	29.6000 28.5000	123.50 117.00	75.00 75.00	10.00		NDFC=80
4 5	40% 40% 80%	30.4000 24.6000	145.00	75.00 75.00 75.00	10.00		10tl =100
6	100%	8.6000	59.50	75.00	10.00	*	

NO TRANSFORMATION

Critical values are 1 tailed (k = 5)

GRP	IDENTIFICATION	MEAN	SMOOTHED MEAN	CONCENTRATION
1	MHR diluent	25.4000	28.4750	0.0000
2	10%	29.6000	28.4750	10.0000
3	20%	28.5000	28.4750	20.0000
4	40%	30.4000	28.4750	40.0000
5	80%	24.6000	24.6000	80.0000
6	100%	8.6000	8.6000	100.0000

ICp estimate with p = 25 is 84.0547

Bootstrap results using 480 iterations:

Mean = 83.2902 Standard Deviation = 3.8929 95% Confidence Interval: (70.2611 , 87.6615)

GRP		IDENTIFICATION	MEAN	SMOOTHED MEAN	CONCENTRATION
1		MHR diluent	25.4000	28.4750	0.0000
2		10%	29.6000	28.4750	10.0000
3		20%	28.5000	28.4750	20.0000
4	1200	40%	30.4000	28.4750	40.0000
5		80%	24.6000	24.6000	80.0000
6		100%	8.6000	8.6000	100.0000

ICp estimate with p = 50 is 92.9531

Bootstrap estimate did not exist for 3 iterations. Bootstrap results using 477 iterations:

> Mean = 92.9414 Standard Deviation = 2.6552 95% Confidence Interval: (86.8269, 98.0921)



EnviroScience Inc. Pimephales promelas Survival Data; EPA 1000.0: pg. 1 of 2

Project ID:	MARR	Start Date:	07/211	Time:	1120
Permit No.:		End Date:	011911	Time:	1045
Hatch #:	07/11/51530 SVE, KLH, 4F	Origin:	Esculture	Diluent:	DMW

	Rep	n _i	# of P	. promelas	Dead / #	of P. prom	elas Advei	sely Affect	ted	Proportion Surviving	Notes
			1	2	3	4	5	6	7		
)	A	10	0,0	010	010	010	010	010	0/0		
DWM	В	10	010	010	010	010	016	00	0/0		
D	C	10	010	010	010	010	0,0	010	0,0		
	D	10	0,0	010	0,0	010	016	212	212		
	total	%'s			:1						X=,95
_	A	10	0,0	010	0,0	010	010	010	010		
MILP	В	10	0,0	010	010	0,0	0,0	010	010		
MAL	C	10	0,0	010	010	0,0	610	0,0	010		
	D	10	0,0	0,0	0,0	010	010	0,0	010		
	total 9	%'s									x=1.0
10	A	10	010	010	0,0	010	810	010	0,0		
10	В	10	0,0	0,0	0,0	010	010	010	010		
	C	10	0,0	0,0	010	010	010	0/0	0,0	1	
	D	10	0,0	0,0	171	11)	111	1/1	111		<i>i</i> .
	total '	%'s									X=.98
1 17	A		/	1	1						
Near Field	В		1	1	1	1					
riciu	C		1	1	1	1					
	D		1	1	1	1					
and the same of th	-total	%'s						-	_		
Initial ⁰ C	Set up	26.0	240	24.0	24.3	24.3	24.0	24.0	_		
Final ⁰ C			24.0	25.2	24.5	26.0	24.9	24.6	25.5		
Final ⁰ C		-	24.0	25-1	25.	25.7	2511	24.2	25.0		
Final ⁰ C	1		24.0	25.0	25.	25,5	25.4	24.9	25.0		
Final ⁰ C			24.0	25.1	25.6	26.0	25.4	24.9	25.3		
Change time	112	20	1140	1150	1245	1220	1056	1055			
Initials	Set up	KR	TM	KH	KH	KR	UA	P	ITM		
Initials for n#	K	H						Reviewe	r pgs 1-2	CUV	114080

Warren WPC 071210 FHM growth mg/fish exposed:

DMW Series DMW Series DMW Series DMW Series DMW Series DMW DMMW DM	sample	tare weight	total weight	weight fish	number fich	ala d. fia la	
PMW	campio	The second of th		weight han	number fish	dry wt. fish	mean dry wt.
1.16803		(g)	(g)	(mg)		(mg)	(mg)
1,17141	<u>DMW</u>						
C					10	0.48600	
Mary	b	1.17141	1.17594	4.53	10	0.45300	
Minimax	C	1.17280	1.17799	5.19	10	0.51900	
MHR	d	1.17612	1.18024	4.12	10		0.467 DMW
MHR a 1.16341 1.16850 5.09 10 0.50900 CV. b 1.15846 1.16378 5.32 10 0.53200 C c 1.17692 1.18186 5.34 10 0.53400 C d 1.17099 1.17594 4.95 10 0.49500 0.517 MHR 0.019 s.d. 3.700 C.V. 1.0% effluent a 1.16866 1.17375 5.09 10 0.50900 CV. b 1.18890 1.19407 5.17 10 0.51700 CV. c 1.17084 1.17611 5.27 10 0.52700 CV. d 1.16219 1.16790 5.13 10 0.51300 0.516 10% effluent c 1.16227 1.1629 5.13 10 0.55300 0.516 10% effluent c 1.16219 1.16790 5.13 10 0.55300 <t< td=""><td></td><td></td><td>sum dry wt.></td><td>18.70</td><td></td><td></td><td></td></t<>			sum dry wt.>	18.70			
MHR			•				
a	MHR						0.000 0.4.
December 1.15846	22-1	1.16341	1.16850	5.09	10	0.50900	
C	b						
March Mar	52						
Sum dry wt.> 20.70 0.019 s.d. 3.700 C.V.							
10% effluent	4				10	0.49300	
10% effluent a			Sum dry w.	20.70			
A	10% effluent						3.700 C.V.
b		4 40000	4 47075	F 20	4.0	2 01000	
c 1.17084 1.17611 5.27 10 0.52700 d 1.16277 1.16790 5.13 10 0.51300 0.516 10% effluent 20.66 sum dry wt.> 20.66 10 0.51300 0.516 10% effluent a 1.16219 1.16724 5.05 10 0.50500 0.50500 b 1.15852 1.16346 4.94 10 0.49400 0.50700 d 1.18251 1.18758 5.07 10 0.50700 0.494 20% effluent d 1.16615 1.17084 4.69 10 0.46900 0.494 20% effluent d 1.16615 1.17084 4.69 10 0.46900 0.494 20% effluent d 1.16615 1.17084 4.69 10 0.50300 0.494 20% effluent d 1.17609 1.17513 5.04 10 0.50300 0.48800 d 1.17990 1.18457 4.67 10 0.45700							
d 1.16277 sum dry wt.> 1.16790 sum dry wt.> 5.13 20.66 0.51300 0.516 10% effluent 0.008 s.d. 1.500 C.V. 20% effluent a 1.16219 1.16724 1.6346 4.94 10 0.49400 c. 1.18251 1.18758 5.07 10 0.50700 d. 1.18251 1.18758 5.07 10 0.50700 d. 1.16615 1.17084 4.69 10 0.46900 0.4494 20% effluent 0.017 s.d. 3.400 C.V. d 1.16615 1.17084 4.69 10 0.50300 b. 1.17009 1.17513 5.04 10 0.50300 b. 1.17009 1.17513 5.04 10 0.50400 c. 1.16394 4.88 10 0.48800 d. 1.17909 1.18457 4.67 10 0.46700 0.490 40% effluent 0.017 s.d. 3.500 C.V. B0% effluent a 1.17617 1.18140 5.23 10 0.52300 b. 1.15823 1.16379 5.56 10 0.55600 c. V. 0.050600 0.497 80% effluent 0.051 s.d. 10.0051 s.d. 10.00							
Sum dry wt.> 20.66 0.008 s.d. 1.500 C.V.							
20% efffluent a	d				10	0.51300	0.516 10% effluent
20% effluent a			sum dry wt.>	20.66			0.008 s.d.
a 1.16219 1.16724 5.05 10 0.50500 b 1.15852 1.16346 4.94 10 0.49400 c 1.18251 1.18758 5.07 10 0.50700 d 1.16615 1.17084 4.69 10 0.46900 0.494 20% effluent 40% effluent a 1.22154 1.22657 5.03 10 0.50300 0.017 s.d. b 1.17009 1.17513 5.04 10 0.50300 0.48800 c 1.15906 1.16394 4.88 10 0.48800 0.017 s.d. d 1.17990 1.18457 4.67 10 0.46700 0.490 40% effluent 80% effluent a 1.17617 1.18140 5.23 10 0.52300 0.017 s.d. 3.500 C.V. 80% effluent 1.17823 1.1835 4.53 10 0.45300 0.051 s.d.							1.500 C.V.
b	20% effluent						
c 1.18251 1.18758 5.07 10 0.50700 d 1.16615 1.17084 4.69 10 0.46900 0.494 20% effluent sum dry wt.> 19.75 0.017 s.d. 3.400 C.V. 40% effluent 2 0.017 s.d. 3.400 C.V. 40% effluent 1.17009 1.17513 5.04 10 0.50300 b 1.17906 1.16394 4.88 10 0.48800 d 1.17990 1.18457 4.67 10 0.46700 0.490 40% effluent sum dry wt.> 19.62 0.017 s.d. 3.500 C.V. 80% effluent 1.15823 1.16379 5.56 10 0.52300 0.55600 c 1.17682 1.18135 4.53 10 0.45300 0.497 80% effluent sum dry wt.> 19.87 19.87 0.051600 0.051 s.d. 10.300 C.V. 100% effluent 1.16431 1.16495 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.2132	a	1.16219	1.16724	5.05	10	0.50500	
1.16615 1.17084 4.69 10 0.46900 0.494 20% effluent	b	1.15852	1.16346	4.94	10	0.49400	
d 1.16615 1.17084 4.69 10 0.46900 0.494 20% effluent 40% effluent 19.75 19.75 0.46900 0.494 20% effluent a 1.22154 1.22657 5.03 10 0.50300 b 1.17009 1.17513 5.04 10 0.50400 c 1.15906 1.16394 4.88 10 0.48800 d 1.17990 1.18457 4.67 10 0.46700 0.490 40% effluent a 1.17617 1.18140 5.23 10 0.52300 0.017 s.d. 3.500 C.V. 80% effluent 1.15823 1.16379 5.56 10 0.55600 0.051 s.d. 0.45300 0.045300 0.047 80% effluent 0.051 s.d. 10.300 C.V. 0.051 s.d. </td <td>C</td> <td>1.18251</td> <td>1.18758</td> <td>5.07</td> <td>10</td> <td>0.50700</td> <td></td>	C	1.18251	1.18758	5.07	10	0.50700	
Sum dry wt.> 19.75 0.017 s.d.	d	1.16615	1.17084	4.69	10		
40% effluent 3.400 C.V. a 1.22154 1.22657 5.03 10 0.50300 b 1.17009 1.17513 5.04 10 0.50400 c 1.15906 1.16394 4.88 10 0.48800 d 1.17990 1.18457 4.67 10 0.46700 0.490 40% effluent 80% effluent a 1.17617 1.18140 5.23 10 0.52300 0.017 s.d. b 1.15823 1.16379 5.56 10 0.55600 0.045300 c 1.17682 1.18135 4.53 10 0.45300 0.497 80% effluent 9.87 19.87 0.45500 0.497 80% effluent 9.87 19.87 0.051 s.d. 10.300 C.V. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d			sum dry wt.>	19.75			
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d 1.17990 1.18457 4.67 10 0.46700 0.490 40% effluent 80% effluent a 1.17617 1.18140 5.23 10 0.52300 b 1.15823 1.16379 5.56 10 0.55600 c 1.17682 1.18135 4.53 10 0.45300 d 1.17377 1.17832 4.55 10 0.45500 0.497 80% effluent sum dry wt.> 19.87 0.051 s.d. 10.300 C.V. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent	C						
Sum dry wt.> 19.62 0.017 s.d. 3.500 C.V.							
80% effluent a					10	0.40700	io to ominorite
80% effluent a 1.17617 1.18140 5.23 10 0.52300 b 1.15823 1.16379 5.56 10 0.55600 c 1.17682 1.18135 4.53 10 0.45300 d 1.17377 1.17832 4.55 10 0.45500 0.497 80% effluent sum dry wt.> 19.87 0.051 s.d. 10.300 C.V. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent			Sum dry Wt.	13.02			
a 1.17617 1.18140 5.23 10 0.52300 b 1.15823 1.16379 5.56 10 0.55600 c 1.17682 1.18135 4.53 10 0.45300 d 1.17377 1.17832 4.55 10 0.45500 0.497 80% effluent sum dry wt.> 19.87 0.051 s.d. 10.300 C.V. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent	80% effluent						3.500 C.V.
b 1.15823 1.16379 5.56 10 0.55600 c 1.17682 1.18135 4.53 10 0.45300 d 1.17377 1.17832 4.55 10 0.45500 0.497 80% effluent sum dry wt.> 19.87 0.051 s.d. 10.300 C.V. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent		1 17617	1 101/0	F 22	40	0.50000	
c 1.17682 1.18135 4.53 10 0.45300 d 1.17377 1.17832 4.55 10 0.45500 0.497 80% effluent sum dry wt.> 19.87 0.051 s.d. 10.300 C.V. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent							
d 1.17377 1.17832 4.55 10 0.45500 0.497 80% effluent sum dry wt.> 19.87 0.051 s.d. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent							
sum dry wt.> 19.87 0.051 s.d. 100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent							
100% effluent a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent	a				10	0.45500	
a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent			sum ary wt.>	19.87			
a 1.18162 1.18678 5.16 10 0.51600 b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent	4000/						10.300 C.V.
b 1.16431 1.16995 5.64 10 0.56400 c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent						at all all a second and a second as	
c 1.17991 1.18439 4.48 10 0.44800 d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent							
d 1.20746 1.21326 5.80 10 0.58000 0.527 100% effluent							
index to the children						0.44800	
	d				10	0.58000	0.527 100% effluent
			sum dry wt.>	21.08			0.059 s.d.
11.200 C.V.	2						11.200 C.V.





EnviroScience Inc. Pimephales promelas Growth Data:

pg. 2 of 2

TD	Project ID:	WARR			. [Start D	ate: 07/2/1
	ermit No.:	MALLE			· <u>I</u>	Start D	410 11
	Concen- tration	Rep.	Pan no.	Weight of pan (g)	Tot dry (g	wt.	No. fish
	807		021 022 023 024	1.17617 1.15823 1.17682 1.17377			
72 20 20 20 20 20 20 20 20 20 20 20 20 20	100%	A B C D	025.	1.18167 1.16431 1.17991 1.20746	1.18618 1.18430 1.21321	<u> </u>	(9) (11) (9)
ue.	2	A B C D		ν			
	Initials		TM	TM	T. T.		TM
£ (1	Quality Assura	ance			T CALL	~× 1	final-initial (g)
	Pan Tare	A B C	029 030 031 037	1.21180 1.19886 1.16588 1.15860	1.71) [.1986 [.1652	X.	20000.0 2000.0 20000.0 20000.0
	Initials	N 10 1 200	ĮM .	TM	I III		ω
S We	eight rations	S wgt 2g 1g	Date: /.	071111 99977 00009	S wgt 2g 1g	Date: () 73(1, 999) 1, () () () 1, () () ()	11 124 15 108
		500mg 100mg	1 - 6	1 1000H	500mg 100mg	1) 1/1	10
Initia	als	1 TOOING		<u> </u>			70/

^{1.} pans without fish are dried at 60 °C for 24 hours, and placed in desiccator to cool before they are tared on AND ER-182-A balance 2. pans with fish are dried at 60 °C for 24 hours, and placed in desiccator to cool before weighing on AND ER-182-A balance

Please note time of drying:	Date	Time	Oven °C	By (initials)
Pans w/fish in oven @	0.71011	1045	87°	
Pans w/fish removed @	072011	1110	650	1 TM

Title: Warren WPC 071211 P.promelas Growth; ToxStat 3.5:

File: warrp711 Transform:

Dunnett's Test - TABLE 2 OF 2 Ho: Control<Treatment GROUP IDENTIFICATION REPS (IN ORIG. UNITS) CONTROL FROM CONTROL DMW diluent 4 14.0 -0.0490 14.0 -0.0263 14.0 -0.0222 14.0 -0.0292 14.0 -0.0595 4 0.0655 0.0655 10% 20% 4 3 40% 4 80% 4 100% 4 0.0655 5 0.0655 6 0.0655 14.0 -0.0595

GRP	IDENTIFICATION	MEAN	SMOOTHED MEAN	CONCENTRATION
1	DMW diluent	0.4675	0.4985	0.0000
2	10%	0.5165	0.4985	10.0000
3	20%	0.4938	0.4985	20.0000
4	40%	0.4898	0.4985	40.0000
5	80%	0.4967	0.4985	80.0000
6	100%	0.5270	0.4985	100.0000

ICp estimate with p = 25 is > 100.0000

CM

NO TRANSFORMATION

Enviroscience Inc. Chronic Toxicity - Daily Chemistry Bench Sheet for DC. dubia or DFHM (check one)

Project	ID:	W	AIT	22		Permit I	√o.:						Date:	67	12	11
Conduc	tivity $\mu\mathrm{m}$	hos/cm -	INITIA	Ĺ				please i	initial and	l enter T	"and "F	"in the a	ppropria	te instrun	ent box.	
level	0	1	2	3	. 4	5	.6		day«>	0	1.	2	3	4	5	6
MHZ	309	292	310	319	293	291		TECH	Initial	75	KH	KR	JD	JD	D	
CUND	185	177	182	186	184	188		TECH	Final	KH	KP	JP.	dD	SD	TM	
10	373	379	315	407	411	388		DO	830						4	
20	451	456	447	451	458	445			820		سا			,		
40	612	622	1001	584	626	643			YSI	ITF	16	IF	IF	15	17	
80	950	956	883	877	986	1970		pН	920			IF	F	1		
COV	1126	1124	1019	1021	1162	1172			2Star	F	P			¥	F	
								cond.	160		1	1		3		
											9.				1	
		De West		0.00			>//=24									
Dissolv	ed Oxyge	n mg/1 - :	INITIAI	<u>.</u>					Dissolv	ed Oxyge	en mg/1 -	FINAL				
level	. 0	1	2	3	4	5	6	1	level	0	1	2	3	4	5	6
MAR	7.8	8-0	8.2	8.3	8.1	8.2			MHVZ	7.8	8.2	8.4	8.1	8.0	7.7	
CUMC	丁千	7.9	8.1	8.3	8.1	8.2			DMW	8.0	8.1	8.3	8.0	8.0	26	
10	7.9	8.0	8.3	8.3	8.2	21032		1	10	7.9	8.2	8.4	8.0	8.1	7.7	
7,0	7.9	8.0	8,2	8.3	8.1	8.Z			20	7.8	8.2	8.4	8.1	8.2	27	
40	79	8.1	8.2	8.3	8.1	8.3			40	7.8	8.2	84	8.2	8.2	27	
80	7.8	8-1	8.1	8.4	8.4	8.5			80	7.7	8.2	8.4	8.2	8.1	7.7	
00,1	800	8.0	81	8.6	8.6	8.0	3	1	100	7.7	83	8.5	8.2	8.2	7.7	
			- 16-1													
-TT	TATTOTT A	 						-		TOTAL A T						
level	- INITIA	1	2 .	3	4	5	6	-	level	- FINAL	1 1	2	3	4	5	6
MAR	7.7	8.1	79	1.4	7.4	7.6	0	1	MAD	7.5	7.8	8.1	7.8	Mingro?	8.0	0
MMM	7.7	7.9	7 /19	+3	7.5	7.5		1 .	Dyn	7.7	79	8.0	7.7	13196	70	
10	4.8	8.0.	7.8	7.5	7.5	7.5		1	10	7.8	7.9	8.1	8.1	18 KI 16.7	7.9 8.1	
20	7,3	7.9	7.7	7.5	7.4	1.5		-	20	7,9	8.0	8.0	8.1	8 48.	01	
40	7.6	7.7	7,10	7.5	7.4	75			40	8.0	8.1	8.0	8.1	8.42	8.0	-
80.	7.5	7.6	7.5	7.3	7.2	7.3			80	8.1	8.2	8.1	8.1	8.3	81	
100	7.4	7.5	7,4	7.1	11	7.5			.100 -	8.2	9.2	8.1	8.1	83	8.2	
VOC		1.0	[v]	T./	7.1	14,7			100	0.0	010-	0.1	0.1	02	0.0	
				1 2		. 1										

CUV080411



CHRONIC BIOASSAY:

INITIAL WATER QUALITY CHECKS (DO, pH, conductivity); CHLORINE, ALKALINITY, HARDNESS DATA.

Project ID:	WARR	Permit No.:	
Test Date:	U71211		_

Sample Type: →		EFFLUENT				
EnviroScience No.:→	WARROTHINETT	WARRO71311 EFF	WAZROFISHEF			
D. Oxygen (mg/l-%sat) >4 & <100%?	7.9	8.1	8 Ne			4
pH (s.u) 6-9?	7.5	7.2	7.4	30.0		
Conductivity (µmhos/cm)	1102	1017	1177			
Alkalinity (mg/l CaCO ₃) MDL = 20 mg/l	CLO 92	(3.8) 76	(4.2) 84.	II.		
Hardness (mg/l CaCO ₃) MDL=5 mg/l	(4.10) 184	(4.8)192	(5.0) 200			
TRC _I (mg/l) <0.02?	20.02	L0.02	20.02			
TRC _A (mg/l) <0.02?	_					
Ammonia as N (mg/L)	_	-				1
Tech Initials : →	JP	KR	JP			

Methods/Instrumentation:

MAOSOAN

DO: APHA (1998) 4500-O G, YSI 5100; pH: APHA (1998) 4500-H B, Orion 920A/2Star; Conductivity: APHA (1998) 2510-B, Orion 160; Hardness: APHA (1998) 2340-C; Alkalinity: APHA (1998) 2320-B; Chlorine: APHA (1998) 4500-CI D, HACH Auto CAT9000

Sample Type: effluent (outfall # if more than one), upstream, downstream (NF, FF), lab water, etc.

EnviroScience No.: Tracking number from C-O-C (client code+date received+type/outfall/unique #)

Dechlorination procedure:

TRC_I = total residual chlorine, initial value measured prior to dilution or use of sample.

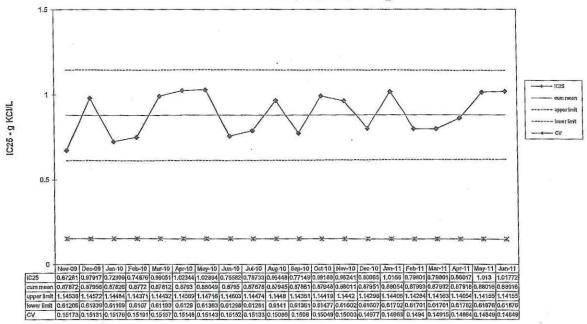
TRC_A = TRC value measured after dechlorination.

Sodium thiosulfate is used to reduce Total Residual Chlorine by dosing with 6.7 mg Na₂S₂O₃ per mg TRC.

A 6.7 mg/ml Na₂S₂O₃ solution is used; dose mls = X mg/l * liters in sample container being treated.

Comments: Describe dechlorination/pH-adjustments including lot numbers, concentration, volumes of sodium thiosulfate or acid/base solutions and volume of sample treated, preparation of blanks; problems associated with data collection, etc. Initial all entries along with date/time/sample #. Attach additional pages if necessary.

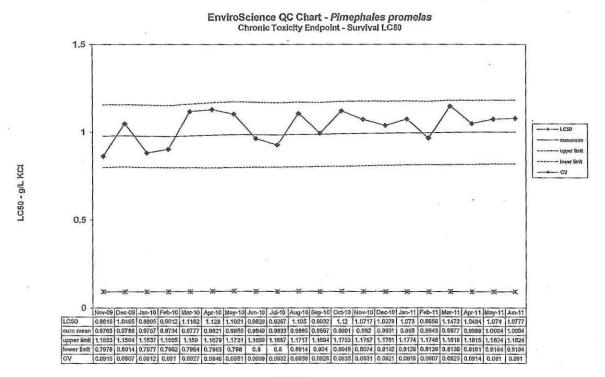
EnviroScience QC Chart - Pimephales promelas Chronic Toxicity Endpoint - Growth IC 25



Test Date

EnviroScience QC/SRT Chart rev. 06/24/2011

Tests conducted with MHRW at Darrow Rd. facility



Test Date



Water Pollution Control Department

City of Warren, Ohio

Michael J. O'Brien

Mayor

2323 Main Ave., S.W., Warren, Ohio 44481-9603 Phone: (330) 841-2591 Fax: (330) 841-2717 William Douglas Franklin
Director of Service-Safety

September 15, 2011

Thomas A. Angelo
Director

James Wilden Superintendent

Greg Lubert Sewer Systems Superintendent

Michael T. Welke Biosolids Manager

Keith Folman
Industrial Pretreatment
Coordinator

Pollutants Analyzed
BY
Precision Analytical Inc.

Total Cyanide 1/month Free Cyanide 3/month 3/month Lead Selenium 3/month Thallium 3/month Mercury 1/month 2/month Low-Level Mercury Antimony 1/month

BIOSOLIDS

NH3-N Cadmium
Chromium Copper
Mercury Nickel
Phosphorus PCB's
Arsenic Lead

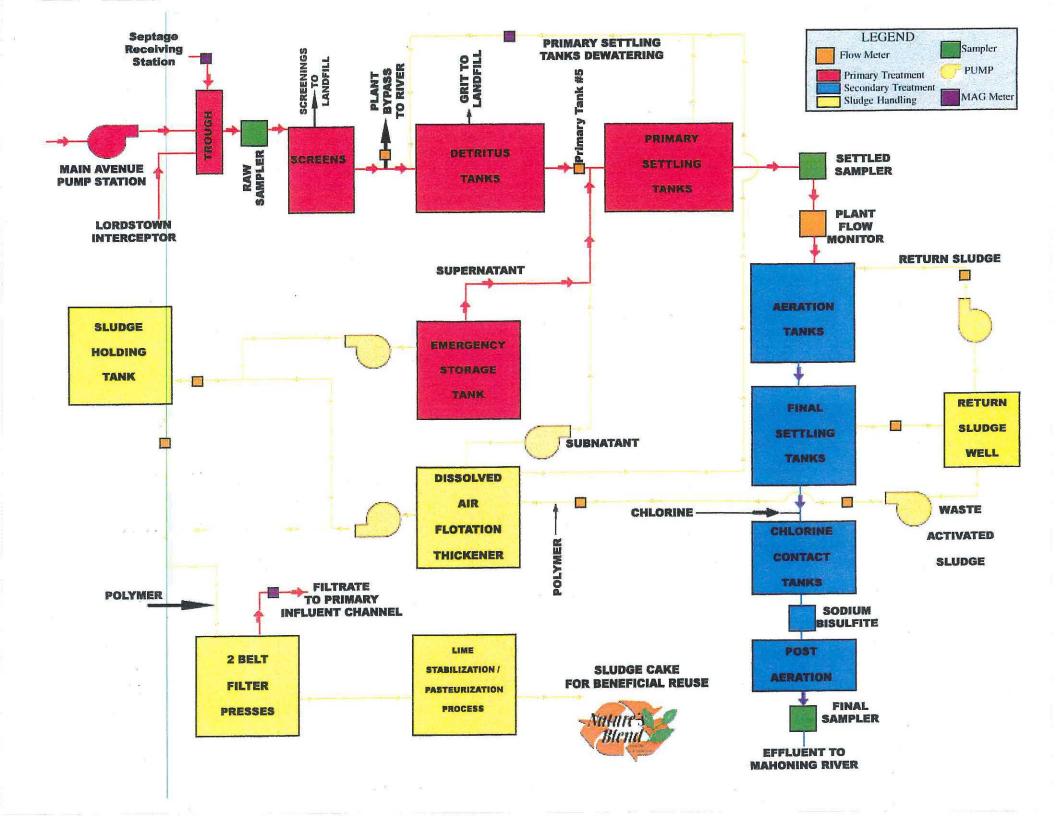
Zinc Molybdenum Selenium Aluminum

Calcium Iron

Sulfur







CITY OF WARREN WPCF LOCAL LIMITS & TECHNICAL JUSTIFICATION July 1, 2011



1.0 INTRODUCTION

On December 1, 2010 the City of Warren Water Pollution Control Facility (WWPCF) received a modified NPDES permit (permit number 3PE00008*MD). This permit contains new effluent limits and water quality based criteria for metals and requires the permittee to evaluate the adequacy of local industrial user limitations (local limits) and provide technical justification for these limits.

Technical Justification is required for Arsenic, Barium, Cadmium, Total Chromium, Dissolved Hexavalent Chromium, Free Cyanide, Copper, Lead, Mercury, Nickel, Selenium, Silver, Strontium, Thallium, Zinc and Total Dissolved Solids. In the event that screening indicates that these pollutants are not present in any significant amounts, a justification is not required.

2.0 BACKGROUND

2.1 Process Description

The City of Warren WPCF is owned and operated by the City of Warren, Ohio. The facility is a secondary treatment plant designed to treat an average daily flow of 16 MGD. Flow entering the plant passes through screens to remove debris and then to a grit removal process. The flow then continues through Primary Settling, Aeration and Final Settling. Effluent is disinfected by chlorine followed by de-chlorination prior to discharge to the Mahoning River. Primary and Secondary sludges are thickened and stored in a holding tank. The sludge is then dewatered and converted to Class A biosolids by processing in thermo blenders (with lime) and a pasteurization vessel.

2.2 Warren WPCF Sampling Summary

The staff of the Warren WPCF performs routine sampling of the Influent, Effluent and Sludge to fulfill permitting and process control requirements. Table 1 summarizes the average, maximum and minimum Influent metals concentrations for the years 2008 - 2010. There were numerous data values less than detection. For parameters where there was a combination of measurable data and less than detection, ½ detection limit was used to determine the average.

TABLE 1
SUMMARY OF INFLUENT METALS CONCENTRATIONS

Pollutant	Average	Maximum	Minimum
NAME OF TAXABLE PARTY OF TAXABLE PARTY.			
Arsenic, ug/L	=	-	-
Barium, ug/L		•	***
Cadmium, ug/L	0.53	4.0	<.5
Chromium, ug/L	5.8	24	<5
Chromium, Hex, ug/L.	1.67	2	<2
Copper, ug/L	25.6	84	<10
Free Cyanide, mg/L	15.6	180	<10
Lead, ug/L	3.0	12.5	<5
Mercury, ng/L	28.05	179	<0.2
Molybdenum, ug/L	-	-	
Nickel, ug/L	31.3	121	<5
Selenium, ug/L	9.9	39.6	<10
Silver, ug/L	-		40
Strontium, ug/L		-	-
Thallium, ug/L	<10	<10	<10
Zinc, ug/L	98.8	313	<10
TDS, mg/L	•	-	

Note: Averages for parameters which had actual values and less than values were calculated with the less than detection equal to ½ the detection limit

Table 2 summarizes the effluent characteristics for the same three (3) year time period. Many parameters yielded numerous less than detection results with the exception of nickel, zinc and mercury. All 36 measured values for Hexavalent Chromium, Copper, Cadmium, Lead, Free Cyanide, Thallium and Antimony were less than detection. Total Chromium had only one (1) measurable result, while Copper and Selenium had only four (4). Where data indicated results less than detection, ½ the detection limit was used to determine the average. The data summarized in Tables 1 and 2 were also used to determine plant removal efficiencies.

TABLE 2 SUMMARY OF EFFLUENT METALS CONCENTRATIONS

Pollutant	Average	Maximum	Minimum
Arsenic, ug/L			
Barium, ug/L		<u> </u>	-
Cadmium, ug/L	0.35	2.0	<0.5
Chromium, ug/L	2.6	6.0	<5
Chromium, Hex, ug/L.	1.1	2.0	<2
Copper, ug/L	6.6	27.0	<10
Free Cyanide, mg/L	<10	<10	<10
Lead, ug/L	<5	<5	<5
Mercury, ng/L	3.79	18.6	<0.2
Molybdenum, ug/L	-	ms	-
Nickel, ug/L	12.9	55	<5
Selenium, ug/L	6.7	26.9	<10
Silver, ug/L	•	-	-
Strontium, ug/L	· ·	-	_
Thallium, ug/L	5.37	18.4	<10
Zinc, ug/L	24.3	73	<10
TDS, mg/L	-	-	

Note: Averages for parameters which had actual values and less than values were calculated with the less than detection equal to ½ the detection limit

Table 3 summarizes the results of metals analyses for land applied sludge for the year 2010. All sludge concentrations for the period were well below the 40 CFR Part 503 Table 1 Ceiling Concentration and Table 3 Application Rates. In the past year, the Warren WPCF has produced an average of 0.121 MGD of sludge to disposal with percent total solids of 12.4%.

The results of domestic collection system sampling events are summarized in Table 4. Domestic system samples for Barium, Strontium and Total Dissolved Solids were only collected in 2010.

TABLE 3
SUMMARY OF SLUDGE TO DISPOSAL BY LAND APPLICATION – 2010

Parameter	Maximum	Minimum	Average
As, mg/Kg	7.26	1.02	4.58
Cd, mg/Kg	AA	AA	AA
Cu, mg/Kg	124	34.6	94
Pb, mg/Kg	63	8.68	30.2
Ni, mg/Kg	71.1	9.01	31.8
Zn, mg/Kg	467	93.5	309
Se, mg/Kg	37.6	1.14	16.4
Hg, mg/Kg	0.984	0.147	0.48
Mo, mg/Kg	30.6	4.68	15.5
% Total Solids	41.7	35.9	38.6

TABLE 4
SUMMARY OF DOMESTIC COLLECTION SYSTEM SAMPLING

Parameter, ug/L	Hollywood	Belvedere	Westwood	Average
Arsenic	<10	<10	<10	<10
Barium	31.5	21.5	24.5	24.9
Cadmium	<10	<10	<10	<10
Chromium	<10	5.6	<10	5.3
Chromium, Hex.	6.0	11.8	17.5	10.3
Copper	27.9	26.1	31.6	27.8
Cyanide, Free	<10	<10	<10	<10
Lead	6.7	6.4	8.5	6.8
Nickel	10.1	<10	<10	7.1
Mercury, ng/L	<0.2	<0.2	<0.2	<0.2
Molybdenum	<10	<10	<10	<10
Selenium	<10	<10	<10	<10
Silver	<10	<10	<10	<10
Strontium	153.5	165	166	136.7
Thallium	<10	<10	<10	<10
Zinc	84.6	88.5	85	86.3
Total Diss. Solids, mg/L	308	572	462	432.6

Averages for parameters with a combination of less than detection and actual values were calculated using ½ the detection limit

3.0 LOCAL LIMITS TECHNICAL DEVELOPMENT

This document summarizes the information utilized in evaluating and modifying the local limits for the Industrial Users of the City of Warren WPCFC. The USEPA <u>Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program</u> was utilized to determine the Maximum Allowable Headworks Loadings (MAHL). The Local Limits were calculated by allowing for domestic background and a 20% safety factor and distributing the remaining load among the contributing permitted industries.

The primary goal of the Warren WPCFC Municipal Industrial Pretreatment Program is to protect the facility from the adverse impact that can occur when toxic wastes are discharged into the collection system. This protection is achieved by regulating non-domestic wastes that may contain toxic compounds or unusually high concentrations of conventional wastes. The development of Local Discharge Limits ensures that the Industrial Users of the system will meet all the general and specific discharge prohibitions specified by the City.

In order to develop the Local Limits for the Industrial Users, Maximum Allowable Headworks Loadings (MAHL) had to be calculated for each parameter. Determination of the MAHL ensures that the WWPCF will not violate the NPDES permit, violate Title 40 CFR Part 503 sludge disposal regulations, compromise the water quality of the Mahoning River, or experience process failure due to the inhibition of the biological processes of the plant.

Before the MAHL can be calculated, plant flows, industrial flows, limiting criteria, plant removal efficiencies and non-industrial loadings had to be determined. The flow values used to determine the local limits were based on flow monitoring which is performed by plant staff on a routine basis. It has been determined that current influent flow of the facility is approximately 14.6 MGD and of that, 1.256 MGD is Industrial Process flow and 13.38 MGD is Domestic Flow. Table 6 summarizes the flow for each Industrial User. Table 7 summarizes the NPDES Permit Requirements outlined in Permit No.3PE00008*MD, the applicable 40 CFR Part 503 Sludge Disposal Criteria and the literature values for Process Inhibition. The NPDES Permit did not specify discharge limits or wasteload allocation (WLA) values for Barium, Strontium or Total Dissolved Solids. A separate calculation was performed to obtain WLA values that could be used in the MAHL calculations for these parameters.

Plant Removal efficiencies were calculated for the facility using NPDES Permit data for the past three years. Some of the sampling results were determined by the contract laboratory to have pollutant levels below the detection limit and therefore were not acceptable for calculating removal efficiencies. Therefore, USEPA literature values found in The Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program were used for those calculations. Table 8 summarizes the Removal Efficiency data.

TABLE 6
CITY OF WARREN WPCFC
AVERAGE INDUSTRIAL FLOWS

Industry Name	Flow (MGD)	
Novelis	.0415	
BFI Medical Watse	.0120	
GE Ohio Lamp	.0095	
GM Lordstown	.5378	
Arcelormittal	.3090	
Packard Electric	.2440	
Taylor Coil	.0005	
Warren Steel Specialties	.0004	
Wheatland Tube	.0013	
Patriot Water	.1000	
Total	1.256	

Average Domestic Flow:

13.38

Plant Flow:

14.6 MGD

TABLE 7 LOCAL LIMITS CRITERIA

Pollutant	NPDES Permit Requirement* ug/L	Table 1 40 CFR 503 Sludge Criteria mg/kg	Table 3 40 CFR 503 Sludge Criteria Mg/kg	Process Inhibition mg/L
Arsenic	680	75	41	0.10
Barium	1,798,000		**	**
Cadmium*	2.3	85	39	1.00
Chromium*	688	-		1.00
Chromium, Hex.	31	n	-	1.00
Cyanide, Free	86		м	0.10
Copper	40	4300	1500	1.00
Lead	19	840	300	1.0
Mercury	.012	57	17	0.10
Molybdenum	-	75	**	**
Nickel*	406	420	420	1.00
Selenium	24	100	100	
Silver*	5.5	-	-	0.25
Strontium ^A	46,118,000		-	
Thallium^	84	*	1	
Zinc	346	7500	2800	1.0
TDS, mg/L^	9,665	-	-	-

^{*} Or wasteload allocation value designated by NPDES Permit [Part II CC (4)] for Local Limit Development

[^] Wasteload Allocation values were calculated based on information from the NPDES Permit Fact Sheet

TABLE 8
REMOVAL EFFICIENCIES

Pollutant	USEPA Primary Removal Efficiency Used %	Observed Plant Removal Efficiency %	USEPA Plant Removal Efficiency %	Plant Removal Efficiency Used %
Arsenic	-	•	45	45
Barium	-	No.		0
Cadmium	15	70.8	67	67
Chromium	27	79	82	82
Chromium, Hex.	-	50	a	50
Copper	22	73.5	86	73.8
Cyanide, Free	-	85.4	69	69
Lead	57	78.3	61	61
Mercury	10	80.4	60	80.4
Molybdenum	•	**		40
Nickel	14	61.9	42	61.9
Selenium		64.2	50	64.2
Silver	20	. 04	75	75
Strontium	**	**		0
Thallium	14	W.	-	40
Zinc	27	72.9	79	72.9
TDS	0	0	0	0

4.0 MAXIMUM ALLOWABLE HEADWORKS LOADING CALCULATIONS

The Maximum Allowable Headworks Loadings (MAHL) were calculated using the formulas provided in the Ohio EPA <u>Pretreatment Program: Local Limits Guidance.</u>

4.1 NPDES Permit

The MAHL determined for the facility based on NPDES Permit Limits and a plant flow of 14.64 MGD are outlined in Table 9 below. Parameters not specified by the NPDES Permit are not listed in Table 9.

TABLE 9
CALCULATION OF MAHL BASED ON NPDES PERMIT LIMITATIONS

Pollutant	NPDES Permit* mg/L	Removal Rate %	MAHL Limitation lbs/day
Arsenic	0.68	45.0	150.9
Barium^	1798	0	219,531
Cadmium	0.0023	67.0	0.851
Chromium	0.688	82.0	466.7
Chromium, Hex.	0.031	50.0	7.57
Copper	0.04	73.8	18.6
Cyanide, Free	0.024	69.0	9.45
Lead	0.019	61.0	5.95
Mercury	0.000012	80.4	0.0075
Molybdenum	= 3	-	
Nickel	0.406	61.9	130.1
Selenium	0.024	64.2	8.18
Silver	0.0055	75.0	2.69
Strontium^	46,118	0	5,630,897
Thallium	0.084	40.0	17.09
Zinc	0.346	72.9	155.9
TDS^	9,665	0	1,180,073

^{*}Or wasteload allocation value designated by NPDES Permit for Local Limit Development [Part II CC (4)]

[^] Wasteload Allocation values were calculated based on information from the NPDES Permit Fact Sheet

4.2 Sludge Disposal Criteria

The MAHL values determined for the facility based on Sludge Disposal Criteria, sludge to disposal flow of 0.121 MGD and percent solids of 12.4% are outlined in Table 10. Parameters not specified by the Sludge Regulations are not listed in Table 10.

TABLE 10
CALCULATION OF MAHL BASED ON SLUDGE DISPOSAL CRITERIA

Pollutant	Pollutant Concentration mg/Kg	Removal Rate %	Sludge Disposal MAHL Ibs/day
Arsenic	41	45	11.4
Cadmium	39	67	7.28
Copper	1500	73.8	254.3
Lead	300	61.0	61.54
Mercury	17	80.4	2.64
Molybdenum*	75	40.0	23.46
Nickel	420	61.9	84.90
Selenium	100	64.2	19.49
Zinc	2800	72.9	480.6

*Ceiling Concentration Value (40 CFR Part 503 Table1)

4.3 Process Inhibition

The MAHL values determined based on Process Inhibition and plant flow of 14.64 MGD are outlined in Table 11. Parameters with no known Inhibition value are not listed in Table 11.

TABLE 11
CALCULATION OF MAHL BASED ON
ACTIVATED SLUDGE PROCESS INHIBITION

Pollutant	Inhibition Levels mg/L	Removal Rate %	Activated sludge MAHL lbs/day
Arsenic	0.1	0	12.21
Cadmium	1	15	143.6
Chromium	1	27	167.3
Chromium, Hex.	1	0	122.1
Copper	1	22	156.5
Cyanide, Free	0.1	0	12.21
Lead	1	57	283.9
Mercury	0.1	10	13.57
Nickel	1	14	141.9
Silver	0.25	20	38.16
Zinc	1 1	27	167.2

4.4 MAHL Comparison

A summary of all MAHL values determined for the facility are outlined in Table 12. The most restrictive of these values is bolded and will be used to determine the Allowable Industrial Loadings.

TABLE 12
COMPARISON OF MAHL CALCULATIONS
Lbs/day

Pollutant	Final Pass-through Loading	Final Inhibition Loading	Final Sludge Loading
Arsenic	150.9	12.21	11.4
Barium	219,531	-	24
Cadmium	0.851	143.6	7.28
Chromium	466.7	167.3	
Chromium, Hex.	7.57	122.1	
Copper	18.64	156.5	254.3
Cyanide, Free	9.45	12.21	10
Lead	5.95	283.9	61.54
Mercury	0.0075	13.57	2.64
Molybdenum	-	*	23.46
Nickel	130.1	141.9	84.9
Selenium	8.18	***	19.49
Silver	2.69	38.16	•
Strontium	5,630,897		*
Thallium	17.09	a ,	10
Zinc	155.9	167.2	480.6
TDS	1,180,073	AND CONTINUES OF C	*

5.0 DATA EVALUATION

As shown in Table 12, the calculated MAHL's show 13 parameters controlled by the NPDES Permit criteria: Barium, Cadmium, Hexavalent Chromium, Copper, Free Cyanide, Lead, Mercury, Selenium, Silver, Strontium, Thallium, Zinc and Total Dissolved Solids. Three (3) metals are controlled by sludge based criteria: Arsenic, Molybdenum, and Nickel. Only Chromium is limited by Inhibition.

Table 13 summarizes the average and maximum effluent data for the period of 2008 – 2010 as compared to the NPDES Permit discharge limitations. As indicated by the Effluent data, there are no parameters which indicate a problem. Only two (2) parameters, Mercury and Selenium, had maximum data values that exceeded the permit values. There were two (2) occurrences of each and both were in 2008. The City of Warren was not previously required to sample the Effluent for Arsenic, Barium, Silver, Strontium or Total Dissolved Solids, therefore, there was no data available to compare. All other parameters were consistently less than detection.

TABLE 13
COMPARISON OF NPDES PERMIT LIMITS TO EFFLUENT DATA

Pollutant	NPDES Permit Limit* ug/L	Effluent Average ug/L	Effluent Maximum ug/L	Parameter of Concern?
Arsenic	680	=		-
Cadmium	2.3	0.35	2	No
Chromium	688	2.6	6	No
Chromium, Hex.	31	1.06	2	No
Copper	40	6.6	27	No
Cyanide	24	5.0	5.0	No
Lead	19	2.5	2.5	No
Mercury	0.012	0.0038	0.019	No
Nickel	406	12.9	55	No
Selenium	24	6.7	26.9	No
Silver	5.5		A SECTION OF THE PROPERTY OF T	-
Thallium	84	5.0	5.0	No
Zinc	346	24.3	73	No

^{*} Or value designated by NPDES Permit [Part II CC (4)] for Local Limit Development

A comparison of the Sludge Disposal Criteria and Actual reported values for the 2007 and 2008 Disposal years are summarized in Table 14. None of the parameters indicate an issue with regards to current Sludge Disposal Criteria.

TABLE 14
COMPARISON OF REPORTED SLUDGE DATA TO SLUDGE DISPOSAL CRITERIA

Parameter	Disposal Criteria mg/kg	Average Disposal Data mg/kg	Maximum Disposal Data mg/kg	Pollutant of Concern?	
Arsenic	41	4.58	7.3	No	
Cadmium	39	AA	AA	No	
Copper	1500	94	124	No	
Lead	300	30.2	63	No	
Nickel	420	31.8	71.1	No	
Zinc	2800	309	467	No	
Selenium	100	16.4	37.6	No	
Mercury	17	0.48	0.984	No	
Molybdenum	75	15.5	30.6	No	

Table 15 shows a comparison of the calculated Influent Loadings compared to the Maximum Allowable Headwork Loadings (MAHL) shown in Table 12. The Influent Loadings were calculated using a flow value of 14.64 MGD and the Influent NPDES data for the years 2008 through 2010. For parameters where the majority of data was reported as less than detection, ½ the detection limit was used to calculate an estimated loading value. The City of Warren was not required by the NPDES Permit to monitor for Arsenic, Barium, Molybdenum, Silver, Strontium or Total Dissolved Solids; therefore there was no data to use for comparison. All other loadings are well below the calculated MAHL.

TABLE 15
COMPARISON OF INFLUENT LOADINGS TO MAHL

Parameter	Influent Concentration ug/L	Influent Loading ppd	MAHL ppd	Concern?	
Arsenic		•	11.4		
Barium	Ale	No.	219,531		
Cadmium	0.5	0.065	0.85	No	
Chromium	5.8	0.708	167.3	No	
Hex. Chromium	1.7	0.204	7.6	No	
Copper	25.6	3.12	18.6	No	
Cyanide	15.6	1.9	9.4	No	
Lead	3.0	0.366	5.9	No	
Mercury	0.28	0.00342	0.0075	No	
Molybdenum	-		23.5	(*)	
Nickel	31.3	3.82	84.9	No	
Selenium	9.9	1.21	8.2	No	
Silver	-		2.7		
Strontium	-	•	5,630,897		
Thallium	5	0.61	17.1	No	
Zinc	98.8	12.06	155.9	No	
TDS	-		1,180,073	•	

In summary, the data indicates that all parameters are well below NPDES Permit requirements and sludge disposal criteria. In addition, influent concentration and loadings are also well within the calculated MAHL's.

6.0 ALLOCATION OF ALLOWABLE INDUSTRIAL LOADING

Table 16 summarizes the Industrial User discharge flow (MGD) associated with each parameter.

Local limits will be issued to the industries whose sampling has revealed the parameters of concern are in their discharge or required by a Categorical Standard. All other industrial users will be expected to discharge these parameters at domestic levels.

After determining the MAHL, the Domestic Loading and a 20% safety factor are subtracted off. The resulting value is the Allowable Industrial Load. The Domestic Background Loadings were determined using the non-industrial flow and the results of collection system sampling performed by the City.

The Allowable Industrial Load can be allocated by four (4) different methods: Uniform Concentration Using Total Industrial Flow, Uniform Concentration Using Contributory Flow, Mass Proportion, and Selected Industrial Reduction. The City of Warren chose to allocate the Industrial Loadings using the Contributory Flow Method. The industries not identified as discharging the parameters were included in the domestic flow while performing the contributory flow method.

Table 17 summarizes the determination of the Allowable Industrial Load, the Industrial User Allocation, the Local Limit calculation, the current Local Limits and the Proposed Local Limit Values. There are four (4) parameters that resulted in new Local Limit values lower than those currently in Ordinance. These include: Cadmium, Lead, Mercury and Silver. Since the data for these parameters did not show any areas of concern, it is recommended to continue the current Local Limits values. Local Limits were not developed for Antimony since this was not required by the NPDES Permit. However, the City of Warren will continue to use the current Local Limit where deemed appropriate.

Local Limit values were developed for Barium, Strontium and TDS based on Water Quality Standards and information obtained from the Fact Sheet which accompanied the NPDES Permit. The necessity of Local Limits for these parameters arose due to the acceptance of "brine" water from Patriot. The results of a pilot study performed prior to acceptance of the "brine" water indicated a maximum flow or 100,000 gpd and TDS of 50,000 ppm would not impact the plant. Therefore, Patriot will be issued a limit of 50,000 ppm while all other uses will monitor for Total Dissolved Solids. As more data is gathered, these parameters will be re-evaluated to determine if changes to local limits are needed.

The results of the local limit determination will be used to issue Industrial User Discharge Permits to the Industries. These values will be issued as daily maximum discharge limitations for end of pipe waste streams. Some of the users are categorical users, therefore, the local limits will have to be compared to the Categorical Standards and the more restrictive value will be issued in the permit. In some instances, Categorical Users will have two monitoring locations, end of process (Categorical Standards) and end of pipe (Local Limits). Industrial Users not assigned a discharge limitation for any parameter will be required by the Industrial User Discharge Permit to discharge within the specified domestic levels.

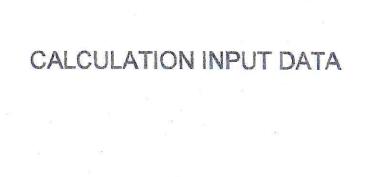
TABLE 16
INDUSTRIAL DISCHARGES ABOVE DOMESTIC BACKGROUND, MGD

	Novelis	Packard Electric	GM Lordstown	GE Ohio Lamp	Mittal Coke	Wheatland Tube	Warren Steel Specialties	Taylor Coil	BFI Medical	Patriot	Total
Antimony								0.0005	0.012	0.1	0.1125
Arsenic	0.0415				0.309					0.1	0.4505
Barium	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005	0.012	0.1	1.2562
Cadmium		0.244	0.538	0.0095		nte Paris de Commente de la Maria de la Salvanor de estre accidade actual de la Commente de la C	0.0004	0.0005		0.1	0.8924
Chromium	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005		0.1	1.2442
Hex. Chrom.	0.0415			0.0095	0.309			0.0005	-		0.3605
Copper	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005	0.012	0.1	1.2562
Cyanide, Free	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005			1.1442
Lead		0.244	0.538	0.0095			0.0004	0.0005	0.012	0.1	0.9044
Mercury	0.0415				0.309		40,		0.012	0.1	0.4625
Molybdenum	0.0415			0.0095				0.0005	0.012		0.0635
Nickel		0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005	0.012	0.1	1.2147
Selenium					0.309						0.309
Silver		0.244	0.538	0.0095			0.0004	0.0005		0.1	0.8924
Strontium	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005	0.012	0.1	1.2562
Zinc	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005	0.012	0.1	1.2562
TDS	0.0415	0.244	0.538	0.0095	0.309	0.0013	0.0004	0.0005	0.012	0.1	1.2562

TABLE 17
Conservative Parameter Allocation
Using Contributory Flow Method

Pollutant	Max. Allowable HW. Loading Ibs/day	Domestic Flow MGD	Domestic Loading lbs/day	Safety Factor 20%	Allowable Ind. Loading lbs/day	Contributory Ind. Flow MGD	Calculated Local Limit mg/L	Current Local Limit mg/L	Proposed Local Limit mg/L
Antimony						1		0.329	0.329
Arsenic	11.4	14.19	0.59	2.28	8.529	0.451	2.3	0.2	0.2
Barium	219,531	13.384	2.78	43,906	175,622	1.256	16,763	•	M
Cadmium	0.85	13.748	0.57	0.17	0.108	0.892	0.014	1.95	1.95
Chromium	167.3	13.396	0.56	33.45	133.247	1.244	12.8	1.5	1.5
Chromium, Hex.	7.57	14.28	1.23	1.51	4.829	0.361	1.6	1.4	1.4
Copper	18.64	13.384	3.1	3.73	11.81	1.256	1.1	0.83	0.83
Cyanide, Free	9.45	13.496	0.56	1.89	6.999	1.144	0.73	0.335	0.335
_ead	5.95	13.736	0.78	1.19	3.98	0.904	0.53	0.89	0.89
Viercury	0.0075	14.178	0.0118	0.0015	-0.0058	0.463	-0.002	0.0035	0.0035
Nolybdenum	23.46	14.577	0.61	4.69	18.162	0.064	34.3	0.699	0.699
lickel	84.9	13.425	0.79	16.98	67.129	1.215	6.6	1.8	1.8
Selenium	8.19	14.331	0.6	1.64	5.951	0.309	2.3	1.47	1.47
Silver	2.69	13.748	0.57	0.54	1.576	0.892	0.21	1.2	1.2
Strontium	5,630,897	13.384		1,126,179	4,504,702	1.256	429,973	-	M
hallium	17.09	13.748	0.57	3.42	13.102	0.892	1.8	**	M
inc	155.9	13.384	9.6	31.18	115.111	1.256	11.0	1.21	1.21
DS	1,180,073	13.384	48,287	236,015	895,771	1.256	85,501	-	50,000/M

M - All Industrial Users will monitor. A limit of 50,000 mg/L for TDS will be issued to Patriot, all other users will monitor



Input Data

Facility Name: Warren WPC

Address:

Contact:

Phone:

Flow Information:

Plant Average Flow, MGD:	14.64	Sludge to Disposal, MGD:	0.1210
Industrial Flow, MGD:	1.256	Sludge to Disposal Percent Solids:	12.40%
Domestic Flow, MGD:	13.38	Annual Dry Tons Sludge Applied:	
		Dry Tons per Day:	0.00

Input Data

	Average	Average	Average	NPDES	Sludge to	Ceiling Conc.	Application
	Influent	Effluent	Domestic	Monthly Limit	Disposal	503 Table 1	503 Table 3
Pollutant	mg/L	mg/L	mg/L	mg/L	mg/kg	mg/kg	mg/kg
Antimony	0.005	0.011	0.005		-	-	
Arsenic	_	-	0.005	0.68	4.58	75	41
Barium	-	-	0.0249	1798	-	-	-
Cadmium	0.00053	0.00035	0.005	0.0023	AA	85	39
Chromium	0.0058	0.0026	0.005	0.688	-		-
Chromium, Hex.	0.00167	0.00106	0.0103	0.031	-	-	
Copper	0.0256	0.0066	0.0278	0.04	94	4300	1500
Cyanide, Free	0.0156	0.005	0.005	0.024	-	-	÷
Lead	0.003	0.0025	0.0068	0.019	30.2	840	300
Mercury	0.000028	3.79E-06	0.0001	0.000012	0.48	57	17
Molybdenum	-	-	0.005	-	15.5	75	-
Nickel	0.0313	0.0129	0.0071	0.406	31.8	420	420
Selenium	0.0099	0.0067	0.005	0.024	16.4	100	100
Silver	_	-	0.005	0.0055		ž	_
Strontium	_	_	0.137	46118	-	-	£
Thallium	0.005	0.005	0.005	0.084	-	=	-
Zinc	0.0988	0.0243	0.086	0.346	309	7500	2800
TDS	-	-	432.6	9665	_	-	-

When domestic sampling indicated BDL, 1/2 reported detection limit was used

Input Data

	Activated	and the state of t	Inhibition	Removal	Removal	Removal	Removal	
	Sludge	Plant	Value	Efficiency	Efficiency	Efficiency	Efficiency	Safety
	Inhibition	Influent	Used	Primary*	Plant	Literature	Used	Factor
Pollutant	mg/L	mg/L	mg/L	%	%	%	%	%
Antimony	gent of Affilian Constitute (1 or	0.005	-	0.0%	**	-	50.0%	20.0%
Arsenic	0.10	-	0.1	0.0%	•	45.0%	45.0%	20.0%
Barium			_	0.0%	0.0%	0.0%	0.0%	20.0%
Cadmium	1.00	0.00053	1	15.0%	70.8%	67.0%	67.0%	20.0%
Chromium	1.00	0,0058	1	27.0%	79.0%	82.0%	82.0%	20.0%
Chromium, Hex.	1.00	0.00167	1	0.0%	50.0%		50.0%	20.0%
Copper	1.00	0.0256	1	22.0%	73.8%	86.0%	73.8%	20.0%
Cyanide, Free	0.10	0.0156	0.1	0.0%	85.4%	69.0%	69.0%	20.0%
Lead	1.00	0.003	1	57.0%	78.3%	61.0%	61.0%	20.0%
Mercury	0.10	0.000028	0.1	10.0%	80.4%	60.0%	80.4%	20.0%
Molybdenum	459	**	-	0.0%	(#)	als.	40.0%	20.0%
Nickel	1.00	0.0313	1	14.0%	61.9%	42.0%	61.9%	20.0%
Selenium	-	0.0099	_	0.0%	64.2%	50.0%	64.2%	20.0%
Silver	0.25		0.25	20.0%	4 10	75.0%	75.0%	20.0%
Strontium		- 10. 15103	_	0.0%	0.0%	0.0%	0.0%	20.0%
Thallium	-	0.005		0.0%		_	40.0%	20.0%
Zinc	1	0,0988	1.000	27.0%	72.9%	79.0%	72.9%	20.0%
TDS		State County County County		0.00%	0.00%		0.00%	20.00%

*USEPA Literature values

Calculation of Sludge Disposal Headworks Loading Limitations (lbs/day)

POTW Name:

Warren WPC

	Pollutant	Removal	Sludge	Percent	Sludge Disposal
	Concentration	Rate	Flow	Solids	MAHL
Pollutant	mg/kg	%	MGD	%	lbs/day
Antimony		50.0%	0.121	12.4%	
Arsenic	41	45.0%	0.121	12.4%	11.4010
Barium		0.0%	0.121	12.4%	-
Cadmium	39	67.0%	0.121	12.4%	7.2839
Chromium		82.0%	0.121	12.4%	_
Chromium, Hex.		50.0%	0.121	12.4%	, - °
Copper	1500	73.8%	0.121	12.4%	254.3361
Cyanide		69.0%	0.121	12.4%	_
Lead	300	61.0%	0.121	12.4%	61.5410
Mercury	17	80.4%	0.121	12.4%	2.6459
Molybdenum*	75	40.0%	0.121	12.4%	23.4625
Nickel	420	61.9%	0.121	12.4%	84.9047
Selenium	100	64.2%	0.121	12.4%	19.4912
Silver	-	75.0%	0.121	12.4%	*
Strontium		0.0%	0.121	12.4%	
Thallium		40.0%	0.121	12.4%	
Zinc	2800	72.9%	0.121	12.4%	480.6220

^{*}Ceiling Concentration Value (Table1)

Calculation of Pass-Through (NPDES) Headworks Loading (lbs/day)

POTW Name:

Warren WPC

	NPDES Permit*	Removal	Plant	NPDES
	Criteria	Rate	Flow	MAHL
Pollutant	mg/L	%	MGD	lbs/day
Antimony		50.0%	14.64	191
Arsenic	0.68	45.0%	14.64	150.9570
Barium	1798	0.0%	14.64	219531
Cadmium	0.0023	67.0%	14.64	0.8510
Chromium	0.688	82.0%	14.64	466.6842
Chromium, Hex.	0.031	50.0%	14.64	7.5701
Copper	0.04	73.8%	14.64	18.6409
Cyanide	0.024	69.0%	14.64	9.4527
Lead	0.019	61.0%	14.64	5.9483
Mercury	0.000012	80.4%	14.64	0.0075
Molybdenum		40.0%	14.64	-
Nickel	0.406	61.9%	14.64	130.1093
Selenium	0.024	64.2%	14.64	8.1853
Silver	0.0055	75.0%	14.64	2.6861
Strontium	46118	0.0%	14.64	5630897
Thallium	0.084	40.0%	14.64	17.0937
Zinc	0.346	72.9%	14.64	155.8884
TDS	9665	0.0%	14.64	1180073

* or value designated in Part II CC (4)

Calculation of Process Inhibition Headworks Loading Limitation (lbs/day)

POTW Name:

Warren WPC

Pollutant	Inhibition Levels mg/L	Removal Rate*	Plant Flow MGD	Activated sludge MAHL Ibs/day
Antimony	•	0.0%	14.64	-
Arsenic	0.1	0.0%	14.64	12.210
Barium		0.0%	14.64	-
Cadmium	1	15.0%	14.64	143.644
Chromium	1	27.0%	14.64	167.257
Chromium, Hex.	1	0.0%	14.64	122.098
Copper	1	22.0%	14.64	156.535
Cyanide	0.1	0.0%	14.64	12.210
Lead	1	57.0%	14.64	283.948
Mercury	0.1	10.0%	14.64	13.566
Molybdenum	-	0.0%	14.64	
Nickel	1	14.0%	14.64	141.974
Selenium	-	0.0%	14.64	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Silver	0.25	20.0%	14.64	38.156
Strontium	_	0.0%	14.64	
Thallium	_	0.0%	14.64	
Zinc	1	27.0%	14.64	167.257

^{*} Primary Process Removal

Comparison of Headworks Loading Limitations (lbs/day)

POTW Name: Warren WPC

	Final Passthrough	Final Inhibition	Final Sludge	Final Headworks
Pollutant	Loading	Loading	Loading*	Limitation
Antimony				<u> </u>
Arsenic	150.9570	12.2098	11.4010	11.40
Barium	219,531	-	_	219,531
Cadmium	0.8510	143.6442	7.2839	0.85
Chromium	466.6842	167.2570	_	167.26
Chromium, Hex.	7.5701	122.0976	_	7.57
Copper	18.6409	156.5354	254.3361	18.64
Cyanide, Free	9.4527	12.2098	-	9.45
Lead	5.9483	283.9479	61.5410	5.95
Mercury	0.0075	13.5664	2.6459	0.0075
Molybdenum	=	_	23.4625	23.46
Nickel	130.1093	141.9740	84.9047	84.90
Selenium	8.1853	-	19.4912	8.19
Silver	2.6861	38.1555	_	2.69
Strontium	5,630,897		-	5,630,897
Thallium	17.0937	•	-	17.09
Zinc	155.8884	167.2570	480.6220	155.89
TDS	1,180,073	*	-	1180073

^{* 40} CFR 503 Table 3 Values used for all parameters except Molybdenum

⁴⁰ CFR 503 Table 1 values are used for Molybdenum

Conservative Parameter Allocation - Contributory Flow Method

	Max. Allowable	Domestic	Domestic	Safety	Allowable Ind.	Contributory	Calculated	Ordinance	FPS 2003
	HW. Loading	Flow	Loading	Factor	Loading	Ind. Flow	Local Limit	Local Limit	Local Limit
Poliutant	lbs/day	MGD	lbs/day	20%	lbs/day	MGD	mg/L	mg/L	mg/L
Antimony								0.329	4.00
Arsenic	11.40	14.190	0.59	2.28	8.529	0.451	2.27	0.2	2.81
Barium	219531	13.384	2.78	43906	175622	1.256	16,763		
Cadmium	0.85	13.748	0.57	0.17	0.108	0.892	0.014	1.95	16.38
Chromium	167.26	13,396	0.56	33.45	133.247	1.244	12.84	1.5	9.82
Chromium, Hex	7.57	14.280	1.23	1.51	4.829	0.361	1.61	1.4	10.30
Copper	18.64	13.384	3.10	3.73	11.810	1,256	1.13	0.705	0.83
Cyanide, Free	9.45	13.496	0.56	1.89	6.999	1.144	0.73	0.335	5.06
Lead	5.95	13.736	0.78	1.19	3.980	0.904	0.53	1	0.89
Mercury	0.0075	14.178	0.0118	0.0015	-0.0058	0.463	-0.0015	0.0035	0.0037
Molybdenum	23.46	14.577	0.61	4.69	18.162	0.064	34.29	0.699	0.85
Nickel	84.90	13.425	0.79	16.98	67.129	1.215	6.63	1.8	2.48
Selenium	8.19	14.331	0.60	1.64	5.951	0.309	2.31	0.932	1.47
Silver	2.69	13.748	0.57	0.54	1.576	0.892	0.21	1.2	19.68
Strontium	5630897	13.384	15.29	1126179	4504702	1.256	429,973	2=	
Thallium	17.09	13.748	0.57	3.42	13.102	0.892	1.76	_	
Zinc	155.89	13.384	9.60	31.18	115.111	1.256	10.99	1.396	1.21
TDS	1180073	13.384	48287.20	236015	895771	1.256	85,501		

Novelis	0.0415
BFI Medical	0.012
GE Ohio Lamp	0.0095
GM Lordstown	0.5378
Arcelormittal	0.309
Packard Electric	0.244
Taylor Coil	0.0005
Warren Steel Specialties	0.0004
Wheatland Tube	0.0013
Patriot	0.1

1.256

Prepared by CSHelds, Hazen and Sawyer, P.C.

SLUDGE DISPOSAL DATA INFLUENT DATA EFFLUENT DATA

Sludge to Disposal by Land Application Disposal Year 2010

The second secon		Commonweath	Production of the second									productions and the			Total /	
Parameter	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Max	Min	Average	
As, mg/Kg	2.16	1.02	2.41	3.96	3.12	3.38	5.33	6.64	7.17	7.26	6.06	6.46	7.26	1.02	4.58	
Cd, mg/Kg	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	
Cu, mg/Kg	108	34.6	94.8	95.3	84.8	107	97.6	124	104	96.5	82.7	96.7	124	34.6	94	
Pb, mg/Kg	31.9	8.68	28.8	30.3	28.4	27.9	27.2	63	30.1	36.1	26.1	24.1	63	8.68	30.22	
Ni, mg/Kg	38.7	9.01	40.3	27.8	24.2	29.1	23.5	26.2	21.9	25.5	44.5	71.1	71.1	9.01	31.82	
Hg, mg/Kg	0.29	0.147	0.389	0.298	0.368	0.265	0.514	0.565	0.618	0.734	0.984	0.571	0.984	0.147	0.48	
Mo, mg/Kg	30.6	8.18	26	20.6	16.7	20.8	11.1	10.6	4.68	11.8	11.8	12.6	30.6	4.68	15.46	
Zn, mg/Kg	288	93.5	336	281	271	329	321	467	376	367	287	297	467	93.5	309	
Se, mg/Kg	3,31	1.14	3.31	3.59	2.67	2.28	13.7	31	31.4	34.3	37.6	32.3	37.6	1.14	16.38	
Average % Total Solids	37.8	38.9	38.8	38.8	37.1	35.9	37.1	38	39.2	38.8	40.9	41.7	41.7	35.9	38.58	

	MG	MGD	C	d (DL=0.5)	1	Cr, T (DL=5			Cr, +6 (DL=2	WWTP Metal 2)		Cu (DL=10)		Н	g, ppt (DL=0	0.2)		Ni (DL=5)	
2008	Total Flow	Avg/day	Inf	Eff	% Rem	Inf	Eff	% Rem	Inf	Eff	% Rem	Inf	Eff	% Rem	Inf	Eff	% Rem	Inf	Eff	% Rem
Jan	453.773	14.64	3	1.5	50.0	7	2.5	64.3	1	1		59	21	64.4	10.4	1.12	89.2	112	42	62.5
Feb	774.372	26.70	2	2		2.5	2.5		1	1		30	5	83.3	18.7	9.79	47.6	105	15	85.7
Mar	971.722	31.35	2	0.25	87.5	2.5	2.5		1	1		32	27	15.6	0.1	18.6		63	25	60.3
Apr	535.308	17.84	0.25	0.25		2.5	2.5	3 11	2	1	50.0	51	11	78.4	0.1	0.1	1	121	2.5	97.9
May	641.682	20.70	4	1	75.0	2.5	2.5		2	2		13	5	61.5	44.8	18.2	59.4	68	11	83.8
Jun	518.333	17.28	0.25	0.25		2.5	2.5		2	1	50.0	57	5	91.2	24.8	1.76	92.9	72	55	23.6
Jul	513.056	16.55	0.25	0,25		20	6	70.0	2	1	50.0	84	5	94.0	48	4.86	89.9	15	2.5	83.3
Aug	425.04	13.71	0.25	0.25		2.5	2.5		2	1	50.0	20	5	75.0	20.9	3.51	83.2	36	2.5	93.1
Sep	443.454	14.78	0.25	0.25		2.5	2.5		2	1	50.0	34	5	85.3	17	1.8	89.4	15	29	
Oct	382.254	12.33	0.25	0.25		7	2.5	64.3	2	1	50.0	23	5	78.3	50.9	5.4	89.4	46	25	45.7
Nov	405.42	13.51	0.25	0.25		20	2.5	87.5	2	1	50.0	28	5	82.1	0.1	0.1		5	24	
Dec	515.091	16.62	0.25	0.25		13	2.5	80.8	1	1		25	5	80.0	5.37	2.23	58.5	52	40	23.1
2009 Jan	448.614	14.47	0.25	0.25		2.5	2.5		2	1	50.0	22.7	5	78.0	27.6	1.47	94.7	2.5	2.5	
Feb	505.15	18.04	0.25	0.25		12.4	2.5	79.8	2	1	50.0	15.6	5	67.9	27.6	1.89	93.2	2.5	2.5	
Mar	589.328	19.01	0.25	0.25		2.5	2.5		1	1		5	5		28.9	4.72	83.7	2.5	2.5	
Apr	545.453	18.18	0.25	0.25		19.6	2.5	87.2	2	1	50.0	21.8	17.6	19.3	12	1.46	87.8	30.1	12.8	57.5
May	412.793	13.32	0.25	0.25		19.8	2.5	87.4	2	1	50.0	32.1	5	84.4	6.01	2.95	50.9	50.7	2.5	95.1
Jun	387.902	12.93	0.25	0.25		24	2.5	89.6	2	1	50.0	22.8	5	78.1	81	3.54	95,6	2.5	2.5	33,1
Jul	334.002	10.77	0.25	0.25		2.5	2.5		2	1	50.0	21.1	5	76.3	2.5	1.4	44.0	2.5	2.5	
Aug	315.728	10.18	0.25	0.25		2.5	2.5		1	1		22.1	5	77.4	7.25	1.21	83.3	2.5	2.5	
Sep	276.815	9.23	0.25	0.25		2.5	2.5		1	1		34.3	5	85.4	14.7	3.15	78.6	2.5	2.5	
Oct	353.493	11.40	0.25	0.25		2.5	2.5		2	1	50.0	27.6	5	81.9	27.8	1.61	94.2	2.5	2,5	
Nov	296.916	9.90	0.25	0.25		2.5	2.5		2	1	50.0	17.7	5	71.8	23.6	1.79	92.4	2.5	2.5	
Dec	406.058	13.10	0.25	0.25		2.5	2.5		2	1	50.0	5	5		16.8	7.44	55.7	2.5	2.5	
2010 Jan	436.754	14.09	0.25	0.25		2.5	2.5		2	1	50.0	17.6	5	71.6	36	0.2	99.4	2.5	2.5	
Feb	360.169	12.86	0.25	0.25		2.5	2.5		1	1		25	5	80.0	13	2.31	82.2	45.1	22.8	49.4
Mar	569.756	18.38	0.25	0.25		2.5	2.5		2	1	50.0	17.9	5	72.1	25	2.77	88.9	24.6	12	51.2
Apr	385.486	12.85	0.25	0.25		2.5	2.5		1	1		21.6	5	76.9	18.5	2.69	85.5	28.3	12	57.6
May	464.867	15.00	0.25	0.25		2.5	2.5		2	1	50.0	16.5	5	69.7	8.6	1.45	83.1	27.2	11.9	56.3
Jun	395.639	13.19	0.25	0.25		2.5	2.5		1	1		5	5		8.2	1.61	80.4	13.3	2.5	81.2
Jul	311.571	10.05	0.25	0.25		2.5	2.5		- 2	1	50.0	28.8	5	82.6	21.8	1.63	92.5	2.5	2.5	
Aug	339.419	10.95	0.25	0.25		2.5	2.5		2	1	50.0	21.9	5	77.2	16.3	2.18	86.6	23	15.5	32.6
Sep	253.975	8.47	0.25	0.25		2.5	2.5		1	1	(1)	19.7	5	74.6	179	2.68	98.5	2.5	2.5	
Oct	299.499	9.66	0,25	0.25		2.5	2.5		1	1		23.2	5	78.4	134	5.28	96.1	34.7	11.9	65.7
Nov			0.25	0.25		2.5	2.5		2	2		16.1	5	68.9	5.9	3.35	43.2	66.3	25.5	61.5
Dec	437.016	14.10	0.25	0.25		2.5	2.5		2	1	50.0	5	5		26.7	10.1	62.2	41.9	28.5	32.0
Total	16038.3	527.22																		
Avg	445.5	14.64	0.527778	0.35	70.8	5.8	2.6	79.0	1.67	1.06	50.0	25.6	6.6	73.8	28.05	3.79	80.4	31.3	12.9	61.9
Max	971.7	31.35	4	2.00	87.5	24	6.00	89.6	2	2.00	50.0	84	27.00	94.0	179	18.60	99.4	121	55.00	97.9
Min	254.0	8.47	0.25	0.25	50.0	2.5	2.50	64.3		1.00	50.0	5	5.00	15.6	0.1	0.10	43.2	2.5	2.50	23.1

Metals results are in ppb unless otherwise indicated
Values reported as Less than Detection were calculated as 1/2 Detection Limit values

		MG	MGD [2 	Zn (DL=10)	T		Pb (DL=5)				rren WWT					TI /DI -10	· 1		Ch (D) -10	1\
2000				1							, ppm (DL=			Se (DL=10)			TI (DL=10			Sb (DL=10	
2008		Total Flow	Avg/day	Inf	Eff	% Rem	Inf	Eff	% Rem	Inf	Eff free	% Rem	Inf	Eff	% Rem	Inf	Eff	% Rem	Inf	Eff	% Rem
	Jan	453.773	14.64	232	73	68.5	2.5	2.5		5	5	4	13	5	61.5	5	5		5	5	
	Feb	774.372	26.70	133	41	69.2	10.7	2.5	76.6	180	5	97.2	5	5		5	5		5	5	
	Mar	971.722	31.35	193	72	62.7	2.5	2.5		131	5	96.2	5	5		5	5		5	5	ļ
	Apr	535.308	17.84	132	45	65.9	2.5	2.5		5	5		5	5		5	5	V	55	5	<u> </u>
	May	641.682	20.70	130	44	66.2	2.5	2.5	1	12	5	58.3	5	5		5	5	<u> </u>	5	5	1
	Jun	518.333	17.28	249	53	78.7	2.5	2.5		5	5		5	5		5	5		5	- 5	ļ
	Jul	513.056	16.55	231	35	84.8	2.5	2.5	ļ	38	5	86.8	5	5		5	5		5	5	-
	Aug	425.04	13.71	78	13	83.3	2.5	2.5		44	5	88.6	5	5		5	5	3	5	. 5	
	Sep	443.454	14.78	313	13	95.8	2.5	2.5		5	5		12	14		5	5		5	5	
	Oct	382.254	12.33	125	24	80.8	2.5	2.5		5	5		39.6	15.3	61.4	5	5		5	5	
	Nov	405.42	13.51	87	22	74.7	2.5	2.5	1	5	5		14.1	26.9		5	5		5	5	-
4 (202-212	Dec	515.091	16.62	58	15	74.1	2.5	2.5		5	5	1	17.3	25.8		5	5		5	5	
2009	Jan	448.614	14.47	83.6	30.7	63.3	2.5	2.5		5	5		15.9	5	68.6	5	5		5	5	
	Feb	505.15	18.04	57.4	25.9	54.9	2.5	2.5	ļ	5	5		21	5	76.2	5	5	11	5	5	
36	Mar	589.328	19.01	5	5		2.5	2.5		5	5		11.5	5	56.5	5	5		5	5	
	Apr	545.453	18.18	70.8	36.9	47.9	2.5	2.5	ļ	5	5	-	13.7	5	63.5	5	5		5	5	
	May	412.793	13.32	114	19.1	83.2	2.5	2.5	ļ	5	5	<u> </u>	11.2	5	55.4	5	5		5	5	
	Jun	387.902	12.93	65	12.8	80.3	2.5	2.5		5	5		13.9	5	64.0	5	5		5	5	
	Jul	334.002	10.77	72.1	16.5	77.1	2.5	2.5		5	5		5	5		5	5	A .	5	5	
	Aug	315.728	10.18	44.4	12.6	71.6	2.5	2.5	<u> </u>	5	5		5	5		5	5		5	5	
	Sep	276.815	9.23	66.6	13.7	79.4	2.5	2.5	-	5	5		5	5		5	5		5	5	
	Oct	353.493	11.40	76.3	21.1	72.3	2.5	2.5		5	5	-	5	5		5	5		5	5	
	Nov	296.916	9.90	93.7	19.1	79.6	12.5	2.5	80.0	5	5		5	5		5	5		5	5	9 0
	Dec	406.058	13.10	22.4	14.6	34.8	2.5	2.5		5	5		5	5		5	5		5	5	
2010	h	436.754	14.09	65.3	20.7	68.3	2.5	2.5		5	5		5	5		5	5		5	5	
	Feb	360.169	12.86	101	26.7	73.6	2.5	2.5		5	5		5	5		5	5		5	5	
	Mar	569.756	18.38	69.3	18.9	72.7	2.5	2.5		5	5		5	5		5	5		5	5	
	Apr	385.486		69.2	15.5	77.6	2.5	2.5		5	5		5	5		5	5		5	5	
	May	464.867	15.00	51.3	13.6	73.5	2.5	2.5		5	5		5	5		5	5		5	5	
	Jun	395.639		35.5	13.6	61.7	2.5	2.5		5	5		5	5		5	5		5	5	
	Jul	311.571	10.05	96	16.4	82.9	2.5	2.5		5	5	1	14.6	5	65.8	5	5	1000000	5	5	
	Aug	339.419		87.9	15.7	82.1	2.5	2.5		5	5		5	5		5	. 5		5	5	
	Sep	253.975		55.9	5	91.1	2.5	2.5		5	5		29.2	5	82.9	5	5		5	5	
	Oct	299,499	9.66	62.2	17.2	72.3	2.5	2.5	-	5	5	1	13.7	5	63.5	5	5		5	5	
	Nov	332.409		79.4	16.8	78.8	2.5	2.5		5	5		10.3	5	51.5	5	5		5	5	
	Dec	437.016	14.10	51.6	16.7	67.6	2.5	2.5		5	5	<u> </u>	5	5		5	18.4		5	206	
	Total	16038.3	527.22		1					i										3=	
	Avg	445.5	14.64	98.8	24.3	72.9	3.0	2.5	78.3	15.56	5.00	85.4	9.9	6.7	64.2	5.00	5.37		5.0	10.6	
	Max	971.7	31.35	313	73.00	95.8	12.5	2.50	80.0	180	5.00	97.2	39.6	26.90	82.9	5	18.40		5	206.00	ı
	Min	254.0 Metals results ar	8.47	5	5.00	34.8	2.5	2.50	76.6	5	5.00	58.3	5	5.00	51.5	5	5.00		5	5.00	

Metals results are in ppb unless c Values reported as Less than Det

DOMESTIC COLLECTION SYSTEM SAMPLING RESULTS

BACKGROUND SAMPLE TESTING

BACKGROUND 2008

PLACE	Hollywood	Belvedere	Hollywood	Belvedere	Hollywood	Belvedere
DATE	3/6/08	3/13/08	6/10/08	7/30/08	8/19/08	9/18/08
TIME	8:30 AM	9:00 AM	9:00 AM	9:00 AM	9:00 AM	9:00 AM
C.O.C.	0803060036	0803130039	0806100085	0807300112	0808190130	0809180148
LAB	American Testing	American Testing	American Testing	American Testing	American Testing	American Testing
PARAMETERS						
CADMIUM ug/l	<10	<10	<10	<10	<10	<10
T.CHROMIUM ug/l	<10	<10	<10	<10	<10	<10
HEX CHROMIUM ug/l	18	<.010	<.01	<.01	85	<10
LEAD ug/l	<10	<10	10.5	<10	<10	<10
MERCURY ug/l	<.2	<.2	<.2	<.2	<.2	<.2
NICKEL ug/l	<10	<10	<10	<10	15.6	<10
ZINC mg/l	26.6	Control of the Contro	86.6	184	478	81.7
SILVER ug/l	<10	<10	<10	<10	<10	<10
PHENOL Ug/L	31	28	69	39		21.5
CYANIDE Mg/l	<.01	<.01	<.01	<.01	<.01	<10
FREE CYANIDE mg/l	<.01	<.01	<.01	<.01	<.01	<.01
COPPER ug/l	<10	<10	24.4	37.1	70	17.8
AMMONIA mg/l	6.43	2.42	15.7	12.7	25,2	13.1
COD mg/l	90	125	332	418	498	349
Ph			7.06			
ARSENIC ug/I	<10	<10	<10	<10	<10	<10
OIL & GREASE mg/l	7	4	31	7.64	40.1	33.3
MOLYBDENUM ug/l	<10	<10	<10	<10	<10	<10
ANTIMONY ug/I	<10	<10	<10	<10	<10	<10
SELENIUM ug/l	<10	<10	<10	<10	<10	<10
PHOSPHORUS mg/l	1.03	0.993	2.97	4.41	8.99	3.69
THALLIUM ug/l	<10	<10	<10	<10	<10	<10
ALUMINUM ug/l	195	290	301	3180	1520	373
TSS	31	17	51	56	464	380

BACKGROUND SAMPLE TESTING

BACKGROUND 2009

PLACE	Hollywood	Belvedere	Hollywood	Belvedere	Hollywood	Belvedere
DATE	4/23/09	3/17/09	7/28/09	7/7/09	10/27/09	9/17/09
TIME				of personal and the stay of participants and the state of		The second secon
C.O.C.	0904230053	0903170037	0907280101	0907070090	0911020148	0909170121
LAB	Precision Analytical	Precision Analytical	Precision Analytical	Precision Analytical	Precision Analytical	Precision Analytica
PARAMETERS						
CADMIUM ug/l	<10	<10	<10	<10	<10	<10
T.CHROMIUM ug/l	<10	10.6	<10	<10	<10	<10
HEX CHROMIUM ug/l	<10	<10	<10	14	<.20	<.01
LEAD ug/l	<10	15.7	<10	<10	<10	<10
MERCURY ug/I	<.2	0.791	<.2	<.2	<.2	<.2
NICKEL ug/l	30.5	<10	<10	<10	<10	<10
ZINC ug/l	54.1	225	52	126	152	117
SILVER ug/I	<10	200	<10	<10	<10	<10
PHENOL Ug/L	<5	44	300	490	66	658
CYANIDE Mg/I	<.01	0.017	<.01	<.01	<.01	<.01
FREE CYANIDE mg/l	≤.01	<.01	0.01	<.01	<.01	<.01
COPPER ug/I	14.1	99	22.1	19.2	24.7	23.8
AMMONIA mg/l	8.16	4.73	18.1	13.4	12.7	16.6
COD mg/l	72.4	266	228	280	379	369
^o h	6.99	7.26		7.24	7.42	8.63
ARSENIC ug/l	<10	<10	<10	<10	<10	<10
OIL & GREASE mg/l	22.3	25.2	70.6	42.4	5.63	52.1
MOLYBDENUM ug/l	<10	<10	<10	<10	<10	<10
ANTIMONY ug/l	<10	<10	<10	<10	<10	<10
SELENIUM ug/I	<10	<10	<10	<10	<10	<10
PHOSPHORUS mg/l	1.58	3.38	2.87	3.08	3.21	1.72
HALLIUM ug/l	<10	<10	<10	<10	<10	<10
ALUMINUM ug/l	231	3750	217	608	648	903
'DS (new parameter)	AND ENTRY WIRE KEY				232	644

BACKGROUND SAMPLE TESTING

BACKGROUND 2010

PLACE	Hollywood	Belvedere	Westwood	Belvedere	Hollywood	Belvedere	Westwood
DATE	4/6/10	3/31/10	5/4/10	7/7/10	7/26/10	9/23/10	9/15/10
TIME						and the transcription in the second of the s	
C.O.C.	1004060078	1003310074	1005040106	1007070136	1007260143	1009230169	1009150167
	Precision	Precision	Precision	Precision	Precision	Precision	Precision
LAB	Analytical	Analytical	Analytical	Analytical	Analytical	Analytical	Analytical
PARAMETERS			国民共和国国际公司		CIR STANISHED		Average day
CADMIUM ug/I	<10	<10	<10	<10	<10	<10	<10
T.CHROMIUM ug/l	<10	<10	<10	<10	<10	<10	<10
HEX CHROMIUM ug/l	<.01	<.05	10	<.01	<10	<10	<50
LEAD ug/l	<10	<10	<10	<10	13.4	11.9	<10
MERCURY ug/I	<.2	<.2	<.2	<.2	<.2	<.2	
NICKEL ug/l	<10	<10	<10	<10	<10	<10	<10
ZINC ug/I	28.1	29.4	58	54.2	137	112	45.4
SILVER ug/l	<10	<10	<10	<10	<10	<10	<10
PHENOL Ug/L	<5	<5	113	<5	65	<5	36
CYANIDE Mg/I	<.01	<.01	<.01	<.01	<.01	<.01	<.01
FREE CYANIDE mg/l	<01	<.01	<.01	<.01	<.01	<.01	<.01
COPPER ug/I	60.3	24.4	33.6	21	18.1	29.6	12.4
AMMONIA mg/l	8.1	2.78	9.12	8.3	16.2	12	18.6
COD mg/l	153	177	291	279	622	460	299
Ph	7.43	The second secon			7.67	7.96	7.48
ARSENIC ug/l	<10	<10	<10	<10	<10	<10	<10
OIL & GREASE mg/l	41.3	14.6	24.1	29.7	6.02	21.2	37.9
MOLYBDENUM ug/l	<10	<10	<10	<10	<10	<10	<10
ANTIMONY ug/l	<10	<10	<10	<10	<10	<10	<10
SELENIUM ug/l	<10	<10	<10	<10	<10	<10	<10
PHOSPHORUS mg/l	1.73	1.6	2.34	2.94	48.5	4.76	3.78
THALLIUM ug/l	<10	<10	<10	<10	<10	<10	<10
ALUMINUM ug/l	97.1	422	382	355	928	1390	246
BARIUM	23.6	18.5	24.5	21.7	39.3	22.1	19.3
TRONTIUM	158	164	166	97.1	149	77	97.8
DS (new parameter)	384	500	544			344	380

City of Warren Domestic Sampling Results

500.0

644.0

572.0

	Hollywood Sampling								
Parameter	04/23/09	07/28/09	10/27/09	04/06/10	07/26/10	Max	Min	Avg	
Cd, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Cr, T ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Cr, Hex ug/L	5	5	10.000	5.000	5	10.0	5.000	6,000	
Pb, ug/L	5.0	5.0	5.0	5.0	13.4	13.4	5.0	6.7	
Hg, ng/L	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Ni, ug/L	30.5	5.0	5.0	5.0	5.0	30.5	5.0	10.1	
Zn, ug/L	54.1	52.0	152.0	28.1	137.0	152.0	28.1	84.6	
Ag, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
CN-Free, ug/L	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	
Cu, ug/L	14.1	22.1	24.7	60.3	18.1	60.3	14.1	27.9	
As, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Mo, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Sb, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Se, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Tl, ug/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Al, ug/L	231	217	648	97	928	928	97	424	
Barium, ug/L				23.6	39.3	39.3	23.6	31.5	
Strontium, ug/L				158.0	149.0	158.0	149.0	153.5	
TDS, mg/L			232	384.0	Í	384.0	232.0	308.0	

,								
Barium, ug/L				23.6	39.3	39.3	23.6	31.5
Strontium, ug/L				158.0	149.0	158.0	149.0	153.5
TDS, mg/L			232	384.0		384.0	232.0	308.0
							25-10-24-12-12-12-12-12-12-12-12-12-12-12-12-12-	
			Belved	ere Sam	pling			
Parameter	07/07/09	09/17/09	03/31/10	07/07/10	9/23/2010	Max	Min	Avg
Cd, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
Cr, T ug/L	5.0	5.0	5.0	5.0	5 1	5.0	5.0	5.0
Cr, Hex ug/L	14	5.000	25.000	10	5	25.0	5.000	11.800
Pb, ug/L	5,0	5.0	5.0	5.0	11.9	11.9	5.0	6.4
Hg, ng/L	0.10	0.10	0.10	0.10	0.1	0.10	0.10	0.10
Ni, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
Zn, ug/L	126.0	117.0	29.4	58.0	112	126.0	29.4	88.5
Ag, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
CN-Free, ug/L	5.000	5.000	5.000	5.000	5	5.000	5.000	5.000
Cu, ug/L	19.2	23.8	24.4	33.6	29.6	33.6	19.2	26.1
As, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
Mo, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
Sb, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
Se, ug/L	5.0	5.0	5.0	5.0	5	5.0	5.0	5.0
TI, ug/L	5.0	5.0	5,0	5.0	5	5.0	5.0	5.0
Al, ug/L	608	903	422	382	1390	1390	382	741
Barium, ug/L			18.5	24.5	22.1	24.5	18.5	21.5
Strontium, ug/L			164.0	166.0	77 j	166.0	164.0	165.0
	1	044	F00 0		244	GAAD	500 O	572 0

500.0

TDS, mg/L

344

	Westwood Sampling								
Parameter	05/04/10	9/15/2010	Max	Min	Avg				
Cd, ug/L	5.0	5	5.0	5.000	5.000				
Cr, T ug/L	5.0	5	5.0	5.000	5.000				
Cr, Hex ug/L	10	25	25.0	10.000	17.500				
Pb, ug/L	5.0	11.9	11.9	5.0	8.5				
Hg, ng/L	0.10	0.1	0.10	0.10	0.10				
Ni, ug/L	5.0	5	5.0	5.0	5.0				
Zn, ug/L	58.0	112	112.0	58.0	85.0				
Ag, ug/L	5.0	5	5.0	5.0	5.0				
CN-Free, ug/L	5.000	5	5.000	5.000	5.000				
Cu, ug/L	33.6	29.6	33.6	29.6	31.6				
As, ug/L	5.0	5	5.0	5.0	5.0				
Mo, ug/L	5.0	5	5.0	5.0	5.0				
Sb, ug/L	5.0	5	5.0	5.0	5.0				
Se, ug/L	5.0	5	5.0	5.0	5.0				
TI, ug/L	5.0	5	5.0	5.0	5.0				
Al, ug/L	382	1390	1390	382	886				
Barium	24.5	22.1	24.5	22.1	23.3				
Strontium	166	77	166.0	77.0	121.5				
TDS	544	380	544.0	380.0	462.0				

City of Warren Domestic Sampling Results

Parameter	Max	Min	Sum	Count	Avg
Cd, ug/L	5.0	5.0	60.0	12.0	5.000
Cr, T ug/L	5.0	5.0	60.0	12.0	5.000
Cr, Hex ug/L	25.0	5.0	124.0	12.0	10.333
Pb, ug/L	13.4	5.0	82.2	12.0	6,850
Hg, ng/L	0.1	0.1	1.2	12.0	0.100
Ni, ug/L	30.5	5.0	85.5	12.0	7.125
Zn, ug/L	152.0	28.1	1035.6	12.0	86.300
Ag, ug/L	5.0	5.0	60.0	12.0	5.000
CN-Free, ug/L	5.0	5.0	60.0	12.0	5.000
Cu, ug/L	60.3	14.1	333.1	12.0	27.758
As, ug/L	5.0	5.0	60.0	12.0	5.000
Mo, ug/L	5.0	5.0	60.0	12.0	5.000
Sb, ug/L	5.0	5.0	60.0	12.0	5.000
Se, ug/L	5.0	5.0	60.0	12.0	5.000
TI, ug/L	5.0	5.0	60.0	12.0	5.000
Al, ug/L	1390.0	97.1	7598.1	12.0	633.175
Barium, ug/L	39.3	18.5	174.6	7.0	24.943
Strontium, ug/L	166.0	77.0	957.0	7.0	136.714
TDS, mg/L	644.0	232.0	3028.0	7.0	432.571



John R. Kasich, Governor Mary Taylor, Lt. Governor Scott J. Nally, Director

August 10, 2011

Deborah J. Houdeshell, P.E. Senior Associate Hazen and Sawyer 11311 Cornell Park Drive, Suite 135 Cincinnati, OH 45242 Re: City of Warren
NPDES Permit 3PE00008
Local Limit Evaluation

Dear Ms Houdeshell:

On July 1, 2011, Ohio EPA received the technical justification report for updating the existing local industrial discharge limitations for the City of Warren WWTP. The following issues must be addressed and a revised copy of the technical justification must be submitted before the Ohio EPA can continue the review process:

- 1. The percent total solids of sludge for disposal is listed as 12.4% on page 5 of the technical justification, but is given as 38.6% on Table 3 on page 6. Please explain the differences between these two numbers.
- The concentrations for mercury in Table 4 are listed as ng/L. Given the numbers included in the Domestic Collection System Sampling Results, this probably should be μg/L.
- 3. The process inhibition for zinc given in Table 7 is incorrect. The activated sludge inhibition for zinc is 0.3 mg/L.
- 4. The technical justification does not mention nitrification inhibition as a potential impact to the operations of the wastewater treatment plant. An assessment of nitrification inhibition needs to be included as part of the technical justification. As part of the nitrification inhibition assessment, the potential for chlorides to cause inhibition should also be included.
- 5. For cadmium, lead, mercury, and silver, the calculated local limits are lower than the previous local limits. Since cadmium's maximum effluent is within 80% of the water quality standard and mercury's maximum is over the limit, the lower calculated limits must be adopted. Because the mercury calculated maximum industrial headworks loading is a negative value, Best Management Practices (BMPs) to reduce mercury discharges are mandatory.

- 6. In the Warren March 6, 2010 request for an extension of the deadline to submit the local limit evaluation, one of the issues cited was the higher than normal detection limits, and that better data would be collected. However, the technical justification still contained higher than normal detection limits for most parameters, including cadmium, lead, and mercury. Because the mercury MIHL is negative, it is recommended that low level mercury sampling be conducted for the technical justification.
- 7. For total dissolved solids (TDS), strontium, and barium, more than seven domestic samples points are needed for a proper technical justification. Typically a minimum of two weeks' worth of back ground data per a parameter is needed. Part of the reason for the submission extension was to collect sufficient data to calculate local limits for total dissolved solids (TDS), barium, and strontium.
- 8. Table 2, Summary of Effluent Metals Concentrations, does not contain values for TDS, barium, or strontium. Given the amount of data Warren collected during the gas well wastewater acceptance study and since the NPDES permit modification became effective, effluent concentrations should be calculated.
- 9. There were significant errors in the wasteload allocation (WLA) calculations used for the TDS, barium and strontium NPDES Permit Requirements found in Tables 7, 9 and 15. The units for barium and strontium are μg/L, not mg/L. The units for TDS are mg/L, not μg/L. The allowable loading (AL) for strontium is 21,000 μg/L and the maximum AL is 40,000 μg/L based on values in the Ohio River Basin Aquatic Life and Human Health summary table, found at http://www.epa.state.oh.us/dsw/wqs/criteria.aspx. The Al for TDS is 500 mg/l, based on the presence of a downstream water supply in Pennsylvania.

As shown in Warren WPCC 2007 NPDES Fact Sheet Table 7, Instream Conditions and Discharger Flow for CONSWLA Model, the background water quality concentrations in the Mahoning River for barium, strontium, and TDS are 36 μ g/L, 151 μ g/L, and 307 mg/L, respectively. There also appear to be errors in the spreadsheet formulas. The WLA values must be corrected prior to calculating local limits.

This local limits technical justification was due February 1, 2011, after deferring the submission due January 1, 2009. Because the submission of this technical justification was extremely overdue, it is necessary to expedite resolution of the above significant issues. Please respond to this letter by August 29, 2011 providing a schedule for submitting a revised technical justification report that addresses the issues noted above. If there are any questions or concerns regarding this letter or if any further guidance is needed, please do not hesitate to contact me at 614-644-2134 or to email me at Ryan.Laake@epa.state.oh.us.

Ms. Houdeshell Page 3 of 3 August 11, 2011

Sincerely,

Ryan Laake

Permits & Compliance Section

Division of Surface Water

cc: Donna Kniss, NEDO-DSW

Tom Angelo, Warren WWTP Keith Folman, Warren WWTP

Michael O'Brien, Mayor, City of Warren

Pretreatment File



11311 Cornell Park Drive Suite 135 Cincinnati, OH 45242 513 469-2750 513 469-2751 Fax

August 29, 2011

Mr. Ryan Laake
Permits & Compliance Section
Division of Surface Water
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, OH 43216-1049



Re: City of Warren

NPDES Permit 3PE00008 Local Limit Evaluation

Dear Mr. Laake:

On August 10, 2011, this office received correspondence outlining issues that were raised by you on the Local Limits Evaluation for the City of Warren. On August 23, you and I had a conversation concerning the issues and clarifications of the issues. The following are responses in the same order as the original letter.

- 1. There was a question on the percent solids shown in Table 3. The percent total solids of sludge disposal listed as 12.4% on page 5 is the percent used in the calculations and the percent solids coming out of the plant. The percent solids of 38.6% listed in Table 3 on page 3 is the percent solids from Nature's Blend.
- 2. It was pointed out that there was an incorrect labeling on mercury in Table 4. The labeling should be ug/L and has been corrected.
- 3. The number used for process inhibition for zinc was being questioned and it was stated that it is wrong. Actually there is a range for process inhibition for zinc of 0.3 5 mg/L. In this technical justification to be conservative the number 1mg/L was used. You stated you wanted 0.3 mg/L to be used in the calculations. This has been revised and showed no impact. The current ordinance in Warren has a lower local limit which will remain.
- 4. It is correct to say that the technical justification does not mention nitrification inhibition as a potential impact. Since the wastewater treatment plant does not nitrify nor do they have a TKN or P limit the nitrification inhibition was not used. Since the nitrification inhibition assessment was not completed, the potential for chlorides to cause inhibition was not included. The need for either one of these was not included in the permit modification. They will be addressed in a modification to the technical justification.
- 5. It was stated that cadmium's maximum effluent is within 80% of the water quality standard. The numbers on the monthly summary were not entered correctly. The data we

HAZEN AND SAWYER

Mr. Ryan Laake August 29, 2011 Page 2

PE.

were given showed the total in the place for maximum. Therefore instead of a maximum effluent number of 2 for cadmium it should have been 1 ug/L. This number is not within 80% of the water quality standard so should be okay. The City has begun testing at low levels for mercury in the domestic background sampling. These sampling results will be used to relook at the mercury local limits prior to anything being determined on how to reduce mercury discharges.

- 6. See response to the above.
- 7. The extension the City asked for last March for the local limits evaluation had to do with the laboratory data they received and the number of zeroes they were given in the data rather than nondetect. At that time, local limits for TDS, barium and strontium were not discussed. At this time the City is collecting two weeks of data to use in the technical justification for local limits of TDS, barium and strontium.
- 8. There was no data included in Table 2, Summary of Effluent Metals Concentrations for TDS, barium and strontium because these parameters were not included in the 2008, 2009 and 2010 monthly reports. The modification to the NPDES permit went in to effect December 2010 and there is data for that one month.
- 9. When calculating the wasteload allocations, the allowable loadings were taken from the Fact Sheet that accompanies the NPDES permit. The Ohio River Basin Aquatic Life and Human Health summary table must not have been used in preparation of the fact sheet. The wasteload allocations have been recalculated and are attached for your review and comment.

The City of Warren is sampling for two weeks to obtain additional data to be used in the technical justification. The additional calculations you requested along with the revisions to the technical justification will be submitted to the Ohio EPA no later than October 28, 2011. If you should have additional questions, please feel free to contact me at (330)322-2567.

Very truly yours,

HAZEN AND SAWYER, P. C.

Deborah J. Houdeshell, P.E.

Senior Associate

Cc:

Tom Angelo, Warren WPC
Keith Folman, Warren WPC
Michael O'Brien, Mayor, City of Warren
Donna Kniss, NEDO – DSW
Cheryl Shields, Hazen and Sawyer, PC